Digitized by the Internet Archive in 2022 with funding from University of Toronto

https://archive.org/details/31761115550386





CA1 EP150 -1990 N72 V.2



NUCLEAR FUEL WASTE DATABASE
Volume 2

Federal Environmental Assessment Review Office Hull, Quebec

October 19, 1990

NUCLEAR FUEL WASTE DATABASE - SUBJECT CLASSIFICATION

10 DISPOSAL AND STORAGE ALTERNATIVES

- 11 Geologic Disposal (repository design)
- 12 Marine Disposal
- 13 Other Alternatives

30 SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS

- 31 Social Impacts
- 32 Economics
- 33 Health
- 34 Public Participation
- 35 Ethics
- 36 Ecological Impacts

NOV 1 8 1991

20 WASTE MANAGEMENT

- 21 Policy and Administration
- 22 Siting
- 23 Waste Characterization
- 24 Transport
- 25 Waste Handling and Emplacement
- 26 Containment
 (design testing,
 corrosion)
- 27 Volume Reduction (reprocessing)

40 EARTH SCIENCE

- 41 Chemistry
- 42 Geology
- 43 Radionuclide Migration
- 44 Thermodynamics

50 ANALYTICAL TECHNIQUES

- 51 Risk Analysis
- 52 Safety Analysis
- 53 Monitoring
- 54 Modelling

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

Sculley, L.W., et al. acad

A COMPARATIVE STUDY OF RADIOACTIVE WASTE EMPLACEMENT CONFIGURATIONS. WASTE MANAGEMENT '84. Proceedings of the Symposium on Waste Management, Vo 11-15, 1984. p. 337-343. 84/03/00

WASTE HANDLING AND EMPLACEMENT:

Thunborg, S. govt
Sandia National Lab. NM (USA).
A ROBOTIC RADIATION SURVEY AND ANALYSIS SYSTEM.
1987. 7p.
87/00/00
A robotic system used to conduct radiation surv

A robotic system used to conduct radiation surveys o prototypical nuclear waste shipping cask is presente WASTE HANDLING AND EMPLACEMENT: containment.

Wallace, K.G.jr; Zerga, D.P.

Mine Ventilation Services, Inc., Lafayette, CA; Pars Brinckerhoff, Quade and Douglas, Inc., San Francisco AN ANALYSIS OF AIR COOLING PRIOR TO RE-ENTERING A DR CONTAINING EMPLACED COMMERCIAL NUCLEAR WASTE.

January 1988. 29 p.

88/01/00
This paper describes an analysis performed to determ cool-down time of drifts in the prospective commerci waste repository in volcanic tuff.
WASTE HANDLING AND EMPLACEMENT: thermodynamics.

acad/media

CHALLENGES OF WASTE HANDLING AND DISPOSAL. April 1986. Radioactive Waste Management & the Nucle Cycle. V. 7(2) p. 107. 86/04/00

WASTE HANDLING AND EMPLACEMENT:

AUTHOR
TYPE
ORGANIZATION
TITLE

Broc, D. assoc Commission of the European Communities, Luxembourg. CHARACTERIZATION OF CANDIDATE BUFFER MATERIALS. VOL. PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

THERMO-MECHANICAL CALCULATION OF BUFFER IN GRANITIC 1987. 150 p.

87/00/00

Mechanical stresses of compacted clays between the c the host rock are studied in the different cases dur evolution of a vitrified waste storage site. WASTE HANDLING AND EMPLACEMENT: buffers, granite.

Fisk, A.T., et al.

priv Foster-Miller Inc., MA (USA). CONCEPTUAL ENGINEERING STUDIES AND DESIGN FOR THREE MACHINES FOR NUCLEAR WASTE TRANSPORTING, EMPLACEMENT RETRIEVAL.

1985. 106 p. 85/00/00

WASTE HANDLING AND EMPLACEMENT: engineering, design.

priv/govt Ontario Hydro. (Canada). CONDITIONING AND HANDLING OF TRITIATED WASTES AT CAN POWER FACILITIES. 1987. 11 p. 87/00/00

WASTE HANDLING AND EMPLACEMENT:

Stinebaugh, R.E.; Robb, R.M.

priv/govt Sandiá National Labs. NM; Los Alamos Technical Assoc NM (USA)

COST COMPARISON OF HORIZONTAL AND VERTICAL WASTE EMP METHODS FOR A REPOSITORY IN TUFF.

May 1987. 48 p.

87/05/00

This document shows that 1) there are important cost resulting from the use of the horizontal emplacement 2) these cost advantages exist for horizontal hole 1 short as 100 ft. WASTE HANDLING AND EMPLACEMENT: tuff, geology.

Denault, P.; Pabrita, L acad

GENTILLY 1 NEARS 'STATIC STATE'. Nuclear Engineering International. August 1985. p. 3 85/08/00 Gentilly 1, the commercial-scale prototype Candu-BLW only provide experience in decommissioning, but will an important facility for demonstrating full scale a handling techniques.

KEYWORDS LOCATION REFERENCE WASTE HANDLING AND EMPLACEMENT:

NFW 2.2-25-1

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Saire, D.E. (International Atomic Energy Agency, Vie Austria).

assoc

International Atomic Energy Agency. Vienna (Austria) IAEA PROGRAM FOR HANDLING, PROCESSING AND STORAGE OF P. 27-35. Spent Fuel Management: Current Status and the IAEA Programme. Proceedings of an Advisory Group Spent Fuel Management held in Vienna, 11-13 March 19 1987. 170 p.

87/05/00

This paper on the IAEA's Program on the handling, tr conditioning and storage of radioactive wastes provi overview of current and planned activities by the Ag field.

WASTE HANDLING AND EMPLACEMENT:

Hoskins, R.E.

INTEGRATED CASK STORAGE SYSTEMS FOR STORAGE, TRANSPO DISPOSAL OF SPENT NUCLEAR FUEL (WASTE POLICIES AND P HIGH-LEVEL WASTE) .

Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 169-176.

84/03/00

An integrated systems approach was devised by TVA for the back-end of the nuclear fuel cycle. The approach on-site storage, transportation, offsite storage and a geologic repository.
WASTE HANDLING AND EMPLACEMENT: cask.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Lupien, M.; Rheaume, M.; Marios, H. assoc

LIGNE DE CONDUITE POUR L'EXPLOITATION DES INSTALLATI STOCKAGE DES DECHETSS RADIOACTIFS SOLIDES A GENTILLY Rapport presente a la Commission de Controle de l'en atomique en appui au permis d'exploitation de l'aire des dechets radioactifs. Mai, 1986. 18 p.

The Gentilly process of decommissioning radioactive

described along with the guidelines for its installa

WASTE HANDLING AND EMPLACEMENT: reprocessing.

NFW 2.2-25-2

Sappok, M. priv

METHOD OF AND APPARATUS FOR THE INTRODUCTION OF RADI METALLIC WASTES INTO A MELTING FURNACE. 24 Nov 1987. VP.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

87/11/24 A radioactive metallic waste disposal apparatus is d comprising: a transport vessel containing therein ra metallic waste; a melting furnace; a furnace chargin

WASTE HANDLING AND EMPLACEMENT:

Mallory, C.W.; Watts, R.E.; Paladino, J.B.; Razor, J.A.W.; Winston, S.J.; Stricklin, B.C.

priv

Pacific Northwest Lab. WA (USA).

US Commissioner of Patents, Washington, DC (USA). NUCLEAR WASTE PACKAGING FACILITY. 21 July 1987. VP.

87/07/21

A nuclear waste packaging facility comprising; a fir substantially surrounded by radiation shielding, inc for remote handling; a second section substantially by radiation shielding, including means for handling deformable container bearing waste delivered to the section; and, a third section, a module transportati loading section between the first and second section a means for handling empty modules delivered to the WASTE HANDLING AND EMPLACEMENT: design.

|Burkholder, H.C.; Brouns, R.A. (comps.); Powell, J.A priv

ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

NUCLEAR WASTE TREATMENT PRÒGRAM: ANNUAL REPORT FOR F September 1987. 223 p.

To support DOE's attainment of it's goals, nuclear w treatment program is to provide technology necessary design and operation of nuclear waste treatment faci commercial enterprises as part of a licensed waste m system and problem specific treatment approaches, wa treatment process adaptations, equipment designs, an shooting.

WASTE HANDLING AND EMPLACEMENT: design, licensing, w management.

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

DATE ABSTRACT

PUBLISH

KEYWORDS

Dennis, A.W.;

Sandia National Lab. NM (USA). OPERATIONAL PROCEDURES FOR RECEIVING, PACKAGING, EMP RETRIEVING HIGH-LEVEL AND TRANSURANIC WASTE IN A GEO REPOSITORY IN TUFF (WASTE POLICIES AND PROGRAMS, HIG

Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 279-285.

84/03/00 The annual waste receipts now being used as the basi conceptual design of the surface waste receiving fac discussed. Waste packaging systems are under develop two waste emplacement methods are currently being re WASTE HANDLING AND EMPLACEMENT: containment.

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Bechtold, W.; Closs, K.D.; Papp, R.

Canadian Nuclear Society. (Canada).
PARAMETERS AND CRITERIA INFLUENCING THE SELECTION OF EMPLACEMENT CONFIGURATIONS IN MINED GEOLOGIC REPOSIT Canadian Nuclear Society 2nd International Conference Radioactive Waste Management. Sept. 7-11, 1986. p. 6 86/09/00

WASTE HANDLING AND EMPLACEMENT: geologic disposal.

Kring, C.T.; Herndon, J.N.; Meacham, S.A.

Oak Ridge National Lab. TN (USA).

POTENTIAL APPLICATIONS OF ADVANCED REMOTE HANDLING A MAINTENANCE TECHNOLOGY TO FUTURE WASTE HANDLING FACI

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

1987. 20 p. 87/00/00

These developments address the nonrepetitive nature maintenance in the unstructured environments encount waste handling facility.
WASTE HANDLING AND EMPLACEMENT:

Warnecke, E.; Brennecke, P.

Physikalisch-Technische Bundesanstalt. (FRG). PRÉLIMINARY WASTE ACCEPTANCE REQUIREMENTS FOR THE PL REPOSITORY.

Kerntechnik. Sep. 1987. V. 51(2) p. 87-90. 87/09/00

The Physickalisch-Techische Bundesanstalt has establ preliminary waste acceptance requirements for the pl Repository. The development of these requirements is WASTE HANDLING AND EMPLACEMENT: regulations.

Odoj, R.; Warnecke, E.; Martens, B.R.

Kernforschungsanlage Juelich G.M.B.H. (FRG). QUALITY CONTROL PRIOR TO DISPOSAL IN THE KONRAD REPOKERNTECHNIK. Sep. 1987. V. 51(2) p. 104-107.

Radioactive waste packages to be disposed of must me acceptance requirements of the repository. The wast are responsible for the waste package quality. The p sampling system for quality control employed at Physikalisch-Technische Bundesanstalt is presented a facilites described.

WASTE HANDLING AND EMPLACEMENT: monitoring.

AUTHOR

Rush, Peter.

TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE priv

RADIATING CONFIDENCE: PT . 1.
Occup. Saf. Health. , March 1988. V. 18(3). P. 30-32
88/03/00
The paper concerns the remote handling and monitorin available for use in the management, transport and s radioactive waste in metal drums.
WASTE HANDLING AND EMPLACEMENT: transport.

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE

Hambley, D.F.; Russell, J.E.; Whitfield, R.G. (and o govt

Argonne National Lab. Il (USA).
RADIOACTIVE WASTE ISOLATION IN SALT: PEER REVIEW OF
TECHNOLOGY, INC., REPORT AND POSITION PAPER CONCERNI
EMLACEMENT MODE AND ITS EFFECT ON REPOSITORY CONCEPT
Feb 1987. 120 p.

87/02/00
Recommendations for revising the Fluor technology.
WASTE HANDLING AND EMPLACEMENT: salt.

Kobran, M.J.; Jeffrey, J.D. (Public Service Electric Hancocks Bridge, NJ).

RADIOACTIVE WASTE PROCESSING AT HOPE CREEK NUCLEAR G STATION BY THE RAPID DEWATERING METHOD.
P. 687-688. Waste Management '87: Waste Isolation in Technical Programs and Public Education. Tucson, AZ. of Arizona Nuclear Engineering Dept. 1987.
87/00/00

An evaluation of Hope Creek Nuclear Generating Stati processing, packaging, and handling capabilities wit process equipment was conducted.
WASTE HANDLING AND EMPLACEMENT:

RADWASTE FILTER PERFORMANCE IMPROVEMENT. EPRI Journal. March 1988. V. 13(2) p. 42-45. 88/03/00

WASTE HANDLING AND EMPLACEMENT: engineering.

Goehring, R.; Wehmeyer, J.

Deutsche Gesellschaft zum bau und Betrieb von Endlag Abfallstoffe M.B.H. (FRG). RECEIVING OF WASTE PACKAGES AND EMPLACEMENT MONITORI

PLANNED KONRAD REPOSITORY. Kerntechnik. Sep. 1987. V. 51(2) p. 113-116.

87/09/00

Over an estimated forty years of operation, some 650 waste packages of low heat generation are planned fo the Konrad underground repository. The procedure of

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT the waste packages is described complete with the redelivery steps and information about the check, clead documentation procedures.

WASTE HANDLING AND EMPLACEMENT:

Leister, P.; Mischke, J.

Deutsche Gesellschaft fuer Wiederaufarbeiting von Kernbrennstoffen M.B.H., Hannover, Germany, (F.R.). REMOTE LIQUID AND SOLID WASTE HANDLING; DIFFERENT MA PHILOSOPHIES AND EQUIPMENT FOR THE REPROCESSING PLAN WACKERSDORF.

1987. 13 p. 87/00/00

It is reported about the arrangement of the process for liquid and solid waste treatment in the waw in n accessible cells of different layout and maintenance WASTE HANDLING AND EMPLACEMENT: reprocessing.

Gustafsson, B. (Swedish Nuclear Fuel and Waste Mange Stockholm)

REMOTE-HANDLING EXPERIENCE IN SWEDEN'S CLAB INTERMED FACILITY FOR SPENT FUEL. Nucl. Eur. August-September 1987. V.7(8-9) P.29.

87/08-09/00

The intermediate spent fuel storage facility, CLAB, into active operation in July 1985. It has been equi so-called conditioning hot cell to carry out remote on different mechanical equipment from the installat WASTE HANDLING AND EMPLACEMENT:

Glowka, D.A.

govt
Sandia National Lab. NM (USA).
REPOSITORY WASTE HANDLING EQUIPMENT DEVELOPMENT PLAN
NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT. (NNWSI
November 1987. 96 p.
87/11/00

This report presents a plan for developing equipment emplacing and, if necessary, retrieving high-level n at the proposed Yucca Mountain repository in Nevada. is structured to provide critical information needed effects of the selection on subsequent equipment devidemonstration costs are estimated.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

WASTE HANDLING AND EMPLACEMENT:

Nair, B.R.; Bahorich, R.J. (Westinghouse Electric Co Waste Dept., Madison, PA) Post, R.G. (ed.)

priv

RETRIEVABILITY CONSIDERATIONS AND THEIR IMPACT ON TH VERTICAL EMPLACEMENT AND RETRIEVAL EQUIPMENT FOR A R SALT.

P. 261-270. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

The current design concept for the disposal of nucle waste packages in a repository in salt is based on templacement of individual packages in vertical boreh underground mine floor.

WASTE HANDLING AND EMPLACEMENT: salt.

Wildt, K.H.

Deutsche Gesellschaft Zum Bau und Berieb von Endlage Abfallstoffe M.B.H., Peine, Germany, (F.R.). SELECTION OF A BACKFILLING METHOD FOR ROADWAY STORAG SPENT FUEL CASKS. (in German)

October 1987. 42 p.

87/10/00

For the backfilling of cavities in the roadways of a shaft for ultimate disposal of pollux spent fuel cas methods suitable for this purpose are pneumatic back slinger stowing.

WASTE HANDLING AND EMPLACEMENT: backfill, cask.

Conners, B.J.; Golden, M.P.; Valenti, P.J.; Winkel, priv West Valley Nuclear Services Co. Inc. NY (USA).

SPENT NUCLEAR FUEL REMOVAL PROGRAM AT THE WEST VALLED DEMONSTRATION PROJECT: TOPICAL REPORT.

March 1987. 81 p.

87/03/00

The spent nuclear fuel removal program at the West V demonstration project consisted of removing the spen fuel assemblies from the storage pool in the plant, them in shielded casks for transportation.

WASTE HANDLING AND EMPLACEMENT: transport.

LOCATION REFERENCE

AUTHOR TYPE | Halverson, T.W.;

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE **PUBLISH**

Westinghouse Electric Corp. NM (USA).
THE ADDED LEVEL OF QUALITY ASSURANCE PROVIDED BY THE CONTACT-HANDLED AND REMOTE-HANDLED WASTE DEMONSTRATI Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 305-310. 87/00/00

This paper discusses the contact-handled and remotewaste emplacement and retrieval demonstrations which conducted at the WIPP. The retrieval demonstrations performed as a requirement that was established by t consultation and cooperation agreement between the s

Mexico and the DOE. WASTE HANDLING AND EMPLACEMENT: regulations.

Tsui, K.K.; Tsai, A. govt

Atomic Energy of Canada Limited. THERMAL ANALYSES FOR DIFFERENT OPTIONS OF NUCLEAR FU

EMPLACEMENT. AECL - 7823. 85/00/00

WASTE HANDLING AND EMPLACEMENT: thermodynamics.

Berger, J.D.; Gneiting, B.C.; Sanders, T.L.

Hanford Engineering Development Lab. WA (USA).
USE OF ROBOTICS FOR RADIOACTIVE WASTE SHIPPING AND R

86/00/00

WASTE HANDLING AND EMPLACEMENT:

Chiquelin, W.R.; Halverson, T.W. priv Westinghouse Electric Corp. NM (USA).

WIPP WASTE HANDLING PROCESSES AND EQUIPMENT.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 627-630.

DATE ABSTRACT

87/00/00 The start clean, stay clean, operating philosophy of resulted in a total quality waste handling environme article describes the waste emplacement and retrieva that will be validated prior to the October 1988 rec waste.

KEYWORDS LOCATION REFERENCE

WASTE HANDLING AND EMPLACEMENT:

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Philipose, K.E.

govt

Atomic Energy of Canada Limited.

500 YEAR CONCRETE FOR A RADIOACTIVE WASTE REPOSITORY Presented at Waste Management '88 Conference, Tucson Feb. 28 - Mar. 3 1988. 88/03/00

CONTAINMENT: concrete.

Hallberg, R.O.; Oestlund, P.; Wadsten, T. (Stockholm Sweden); Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. A 17TH CENTURY BRONZE CANNON AS ANALOGUE FOR RADIOAC DISPOSAL.

P. 135-139. Natural Analogues in Radioactive Waste D Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series.

87/04/00

The present method of fuel disposal is based on keep in copper canisters embedded in clay. By means of th calculations it has been concluded that the corrosio copper is very small. These conclusions are further getting access to copper objects exposed to corrosiv for a long period of time.

CONTAINMENT: clay, copper.

Rowan, S.M.; Donaldson, L.; White, S. (Trent Polytec Nottingham, UK)

acad

United Kingdom Nirex, Ltd.; UKAEA Harwell Lab. Chemi A COMPARATIVE STUDY OF THE PORE STRUCTURES AND SURFA HARDENED CEMENT PASTES OF POTENTIAL USE IN RADIOACTI REPOSITORIES.

February 1988. 12 p.

88/02/00

Measurements of water vapour adsorption at 200c and intrusion have been used to compare the surfaces and structures of hardened cement pastes made from ordin cement and the additives blast furnace slag and pulv ash results suggest that each additive, after taking hydration reaction with OPC, produces a paste whose structure is similar to that derived from OPC alone. CONTAINMENT: cement.

AUTHOR TYPE ORGANIZATION

assoc British Nuclear Energy Society. (UK). TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE A MATHEMATICAL MODEL OF LOCALIZED CORROSION OF STEEL WASTE CANISTERS.

British Nuclear Energy Society Journal. Aug. 86. V. 86/08/00

CONTAINMENT: corrosion, modelling.

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Feng, X.; Barkatt, A.

acad The Catholic University of America. (USA).

A MODIFIED THERMODYNAMIC MODEL OF GLASS DISSOLUTION

INTERACTIVE CONDITIONS.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 584-590.

An extensive series of leach tests were carried out glasses, in particular borosilicate glasses develope West Valley HLW Immobilization Project. The results

CONTAINMENT: waste management, glass, leaching.

Bucholz, J.A. (Oak Ridge National Lab., TN). govt

International Atomic Energy Agency. Vienna (Austria) A PERSONAL COMPUTER PROGRAM FOR EVALUATING THE IMPAC CASK DESIGN SPECIFICATIONS.

V.2 P.561-562. Packaging and Transportation of Radio Materials (PATRAM '86). Proceedings of an Internatio Symposium on the Packaging and Transportation of Rad Materials held in Davos, 16-20 June 1986. Vienna. IA 780 p. Proceedings series.

87/00/00

CONTAINMENT: transport, safety analysis, modelling,

Hayward, P.J.

govt

Atomic Energy of Canada Limited. A REVIEW OF GLASS-CERAMICS FOR THE IMMOBILIZATION OF

RECYCLE WASTES.

1987. 78 p.

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

87/00/00

CONTAINMENT: glass, ceramics.

Cartwright, K.; Larson, T.H.; Herzog, B.L.; Jonson, Albrecht, K.A.; Moffett, D.L.; Keefer, D.A.; Stohr, govt

Íllinois State Geological Survey, Champaign; Nuclear Commission, Washington, DC. Div. of Waste Management A STUDY OF TRENCH COVERS TO MINIMIZE INFILTRATION AT DISPOSAL SITES: FINAL REPORT. (GLACIAL TILL, LOESS,

PUBLISH DATE ABSTRACT GRAVEL) . February 1987. 137 p. 87/02/00

We have investigated methods to limit infiltration t covers by reviewing current practices, testing select materials, simulating selected cover designs, and deconstucting, and monitoring four field-scale experim covers.

KEYWORDS LOCATION REFERENCE CONTAINMENT: monitoring.

AUTHOR TYPE ORGANIZATION TITLE

govt

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION

REFERENCE

Atomic Energy of Canada Limited.
A TECHNIQUE TO INVESTIGATE THE MECHANISM OF UNIFORM THE PRESENCE OF A SEMI-PERMEABLE MEMBRANE. 1987. 38 p.

87/00/00 CONTAINMENT: corrosion.

AUTHOR TYPE ORGANIZATION govt

King, F.

TITLE

A WASTE PACKAGE PERFORMANCE ASSESSMENT CODE WITH AUT SENSITIVITY-CALCULATION CAPABILITY. ORNL Reprot TM-9976, Sept. 1986. 39 p.

86/09/00

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

CONTAINMENT: modelling.

AUTHOR

Onofrei, M.; Mathew, P.M.; McKay, P.; Hosaluk, L.J.; D.W. govt

TYPE

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

1986. 28 p. 86/00/00

MANAGEMENT PROGRAM.

CONTAINMENT:

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE Vance, E.R.; Hayward, P.J.; Tait, J.C.; George, I.M. A.A.

Atomic Energy of Canada Limited.
ADVANCED CONTAINMENT RESEARCH FOR THE CANADIAN NUCLE

govt

Atomic Energy of Canada Limited.
ALTERNATIVE PREPARATIVE METHODS FOR SPHENE GLASS-CER 4 p. (1986). Reprinted from the Ceramic Bulletin (Oc 65(10):1423-1426. 86/10/00

CONTAINMENT: glass.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Marsh, G.P.; Taylor, K.J.

govt The Swedish Nuclear Fuel and Waste Management Co. AN APPROACH FOR EVALUATING THE GENERAL AND LOCALIZED CARBON STEEL CONTAINERS FOR NUCLEAR WASTE DISPOSAL. June 1987. 14 p.

87/06/00

The paper considers the long term corrosion of carbo containers for heat generating nuclear waste in a gr repository.

CONTAINMENT: corrosion, geologic disposal.

Marsh, G.P.; Taylor, K.J. (UKAEA Harwell Lab. Materi Development Div.) assoc

AN ASSESSMENT OF CARBON STEEL CONTAINERS FOR RADIOAC DISPOSAL.

Corros. Sci. 1988. V.28(3) P.289-320.

88/00/00

The report describes a study of the corrosion of hi nuclear waste containers in geological disposal. CONTAINMENT: corrosion, steel.

| Hayward, P.J.; George, I.M.; Woods, M.P.; Busby, T.S

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

govt Atomic Energy of Canada Limited. AN EVALUATION OF ELECTRIC MELTER REFRACTORIES FOR CO GLASS USED FOR THE IMMOBILISATION OF NUCLEAR WASTE. 7 p. (1987). Reprinted from Glass Technology (1987) 87/00/00

CONTAINMENT: glass.

Boersma, M.D.

Savannah River Lab. SC (USA). APPLICATIONS OF CHEMICAL ENGINEERING PRINCIPLES TO G FOR NUCLEAR WASTE FIXATION. 1988. 14 p.

88/00/00

Five important differences between radwaste vitrific normal industrial glassmaking are described. CONTAINMENT: glass.

Marsh, G.P.; Taylor, K.J.; Sharland, S.M.; Tasker, P Lab., Oxfordshire, England). Bates, J.K.; Seefeldt, W.B. (eds.). priv

Argonne National Lab. Il (USA).
APPROACH FOR EVALUATING THE GENERAL AND LOCALIZED CO
CARBON-STEEL CONTAINERS FOR NUCLEAR WASTE DISPOSAL.

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TTTTT

PUBLISH DATE ABSTRACT P. 227-238. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

The paper considers the long term corrosion of carbo containers for heat generating nuclear waste in a gr container.

CONTAINMENT: granite, corrosion.

Liebetrau, A.M.; Apted, M.J.; Engel, D.W.; Altenhofe Reid, C.R.; Strachan, D.M.; Erikson, R.L.; Alexander

Pacific Northwest Lab. WA; US DOE Office of Civilian Waste Management, Washington, DC (USA).
AREST (ANALYTICAL REPOSITORY SOURCE-TERM): A PROBABI

SOURCE-TERM CODE FOR WASTE PACKAGE PERFORMANCE ANALY Febuary 1987. 30 p.

87/02/00

The engineered barrier system is the first of severa and natural barriers to the release and migration of

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION wastes from a geologic repository to the accessible CONTAINMENT: modelling, engineering.

Johnson, A.B.; Dobbins, J.C.; Zaloudek, F.R.

Pacific Northwest Lab. WA (USA).
ASSESSMENT OF THE INTEGRITY OF SPENT FUEL ASSEMBLIES STORAGE DEMONSTRATIONS AT THE NEVADA TEST SITE.

July 1987. 186 p. 87/07/00

This report summarizes the histories of 17 zircaloyfuel assemblies used in dry storage tests and demons the engine maintenance and disassembly and climax fa the Nevada Test Site.

CONTAINMENT: monitoring.

Jakubick, A.T.; Gillham, R.W.; Kahl, I.; Robin, M. (Hydro, Toronto).

Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA).
ATTENUATION OF PU, AM, CS AND SR MOBILITY IN CONCRET
P. 355-368. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Sorption experiments with 85Sr, 137Cs, 239Pu and 241 types of concrete (normal density, normal density wi high density and high density with silica fume) were in a previous NaCl grounder and in nitrate s

CONTAINMENT: groundwater, concrete.

Guppy, R. (UKAEA Harwell Lab, Materials Development United Kingdom Nirex, Ltd. (UK).

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE AUTOGENOUS HEALING OF CRACKS IN CONCRETE AND ITS REL RADWASTE REPOSITORIES.

March 1988. 23 p.

88/03/00

Cracks in concrete structures within a radioactive w repository could provide fast transport pathways and could impair the performance of the concrete as a ba radionuclide migration.

CONTAINMENT: concrete, radionuclide migration.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE

Philbin, J.S.; Emerson, E.L.

govt

Sandia National Labs. NM (USA). BEHAVIOR OF A SIMULATED, METAL SPENT-FUEL STORAGE CA EXPLOSIVE ATTACK.

1988. 10 p. 88/00/00

Experimental data and calculations to define the pot from a hostile attack upon a metal spent-fuel cask u on-site, above-ground storage are presented.

CONTAINMENT:

Davis, M.S.; Schweitzer, D.G.

Brookhaven National Lab. NY (USA)

BNL HIGH-LEVEL WASTE TECHNICAL ASSISTANCE PROGRAM FO THE NRC.

J. Institute Nuclear Materials Management. V. 13 p.

Recommendations of the US Brookhaven National Lab. t generic and priority issues needed to predict radioa package performance after repository closure are sum CONTAINMENT:

Bart, G.; Zwicky, H.U.; Aerne, E.T. Graber, T.; Z'Be Tokiwai, M. (Swiss Federal Institute for Reactor Res Wuerenlingen).

Bates, J.K.; Seefeldt, W.B. (eds.). govt

Argonne National Lab. Il (USA).

BOROSILICATE GLASS CORROSION IN THE PRESENCE OF STEE PRODUCTS.

P. 459-40. Scientific Basis for Nuclear Waste Manage Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Since 1982, the corrosion behaviour of radioactive h waste glass and of inactive glasses of the same comp been studied in the framework of a Japanese-Swedish-Project. In addition to granite and backfilling mate influence of steel corrosion products on glass corro been investigated in experiments of up to one year a a sample surface area to leachant volume ratio of 10 CONTAINMENT: corrosion, glass.

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Battelle Memorial Inst. Columbus, OH. Office of Nucl Isolation.

BUCKLING DESIGN CRITERIA FOR WASTE PACKAGE DISPOSAL MINED SALT REPOSITORIES.

Battelle Memorial Inst. Report ONWI-597. Dec. 1986. 86/12/00

CONTAINMENT: design, geologic disposal.

Taylor, R.F.; Wall, G.P.; Ambrose, D.C.

UKAEA Harwell Lab. Chemical Engineering Div. CALCINER PERFORMANCE IN THE VITRIFICATION OF HLW AND COLLATION OF ROTARY KILN EXPERIMENTAL DATA. February 1988. 25 p.

88/02/00

This paper collates the results of some hundred runs calculation of high-level waste simulates using a 92 rotary kiln, and more recently a 200 mm diameter uni CONTAINMENT: modelling, thermodynamics.

Van Konynenburg, R.A.; Smith, C.F.; Culham, H.W.; Sm (Lawrence Livermore National Lab., CA). Bates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il. (USA) CARBON-14 IN WASTE PACKAGES FOR SPENT FUEL IN A TUFF P. 185-196. Scientific Basis for Nuclear Waste Manag

Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

The Environmental Protection Agency and the Nuclear Commission have established limits on release of the spent fuel. This is of particular concern for the pr repository in tuff, because of the unsaturated condi the consequent possibility of gaseous transport of 1 CONTAINMENT: tuff.

Bryan, G.H. priv

Pacific Northwest Lab. WA (USA)

CESIUM CHLORIDE COMPATIBILITY TESTING PROGRAM: ANNUA FISCAL YEAR 1986.

May 1987. 37 p. 87/05/00

A program was started to evaluate the compatibility encapsulation and storage facility- produced cesium **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

with 3161 stainless steel under thermal conditions t encountered in a geologic repository. CONTAINMENT: thermodynamics.

Nieto, M.I. (Inst. de Ceramica y Vidrio, Madrid, Spa Rincon Lopez, J.M. (ed.)

Centro de Investigaciones Energeticas, Medioambienta Technologicas, Madrid, (Spain).
CHEMICAL DURABILITY OF SILICOBORATE GLASSES.

P.121-139. Glasses and Glass-Ceramics for Nuclear Wa Management. 1987. 212 p.

87/00/00

A general view of the durability in silicoborate gla presented with more emphasis on the etching factors techniques used in this study and the experimental r CONTAINMENT: glass.

Insalaco, J.W.

Battelle Memorial Inst., Columbus, OH. Office of Was COMPARISON OF RESULTS FOR TEN ANALYTICAL HEAT CONDUC AS SOLVED BY THE GENERAL HEAT TRANSFER CODE HEATING5 ENGINEERING AND TRANSFER IN NINE GEOMETRICS). Battelle Memorial Inst.

July 1987. 53 p.

87/07/00

Objective was to verify heatings for use in estimati temperature distribution around a waste package afte emplaced in a repository. The approach taken in veri HEATING5 to the analytical solutions for a series of for which analytical solutions existed. CONTAINMENT: thermodynamics.

Warrant, M.M.; Ottinger, C.A.

govt Sandia National Lab. NM (USA)

COMPILATION OF CURRENT LITERATURE ON SEALS, CLOSURES FOR RADIOACTIVE MATERIAL PACKAGINGS.

Jan. 1989. 154 p.

89/01/00

This report presents an overview of the features tha sealing capability of radioactive material packaging certified by the US Nuclear Regulatory Commission. T based on a review of current literature on seals, cl leakings for radioactive material packagings.

CONTAINMENT:

LOCATION REFERENCE

AUTHOR

Feng, X.; Barkatt, A.; (Catholic Univ. of America, W DC).

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

acad

COMPOSITION EFFECTS ON CHEMICAL DURABILITY OF BOROST GLASSES.

Trans. Am. Nucl. Soc., 1987. V. 54. P. 110-112.

87/00/00

A preliminary glass composition, WVRG has been devel Pacific Northwest Lab for the immobilization of high radioactive waste at the West Valley Demonstation Pr CONTAINMENT: glass.

Broothaerts, J.

govt
SKC/CEN. (Belgium).

CONDITIONING AND CLADDING WASTE BY PRESS COMPACTION ENCAPSULATION IN LOW-MELTING METAL ALLOYS.

CEC Report EUR 9670 EN. 1985. 93 p.

85/00/00

The management of cladding waste deserves serious co account of the voluminous amounts involved and the h of associated beta, gamma, and alpha activities. Tec conditioning this low density, highly active metal s isolated form were researched.

CONTAINMENT:

Striecher, M.A.; Andrews, A. (eds.)

govt Argonne National Lab. IL (USA)

CONTAINER MATERIALS FOR ISOLATION OF RADIOACTIVE WAS October 1987. 56 p.

87/10/00

The workshop reviewed the extensive data on the corr resistance of low-carbon steel in simulated salt rep environments, determined whether these data were suf recommend low-carbon steel for fabrication of the co assessed the suitability of other materials under co in the SRP.

CONTAINMENT: steel, salt.

|Brennecke, P.; Essmann, J.; Geiser, H.; Rittscher, D Schuchardt, M.C.

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

CONTAINERS FOR THE FINAL STORAGE OF RADIOACTIVE WAST

KONRAD MINE. (in German) Atomwirtsh., Atomtech. November 1987. V. 32(11) P. 5 87/11/00

The article outlines the boundary conditions for the containers as resulting from the plans for the opera of the Konrad mine.

CONTAINMENT: occupational exposure.

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

CONTAINMENT:

87/00/00

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

Kamizono, Hiroshi; Shimizu, Isamu; Banba, Tsunetaka Energy Research Inst., Tokai, Ibaraki. Tokai Research Establishment).

Resources for the Future Report (Nuclear Imperatives

Trust: Dealing with Radioactive Waste.) 1987. p. 9-8

CONTINUOUS-FLOW LEACH TESTS OF SIMULATED HIGH-LEVEL IN SYNTHESIZED GROUNDWATER AND DEIONIZED WATER.

J. Nucl. Sci. Technol. (Tokyo). (Apr 1987) 24(4):308

CONTAINMENT: A TECHNOLOGY AHEAD OF ITSELF.

87/04/00 Simulated high-level waste glass was leached at 70½0 in one type of synthesized groundwater in Japan and water. The MCC-4 low-flow-rate leach test method was producing continuous-flow leach conditions.

CONTAINMENT: leaching, glass.

Smyrl, W.H.; Bell, B.T.; Atanasoski, R.T.; Glass, R. Minnesota, Minneapolis)

Bates, J.K.; Seefeldt, W.B. (eds.)

Argonne National Lab. Il (USA). COPPER CORROSION IN IRRADIATED ENVIRONMENTS. THE INF H2O2 ON THE ELECTROCHEMISTRY OF COPPER DISSOLUTION I

P. 591-601. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION 87/00/00 The anodic dissolution of copper has been examined i 0.1 M HCL aqueous solution in the presence of H202. CONTAINMENT: corrosion, dissolution.

Anantatmula, R.P.; Fish, R.L. (Rockwell Hanford Oper

Richland, WA).
Bates, J.K.; Seefeldt, W.B. (eds.). priv

Argonne National Lab. Il (USA).
CORROSION BEHAVIOR OF CONTAINER MATERIALS IN GRANDE GROUNDWATER.

P. 295-306. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Three candidate waste package container materials we five months at 2000½C in Hanford Site Grande Ronde b groundwater (9.75 pH) under anoxic conditions (<0.1 dissolved oxygen in water).

CONTAINMENT: corrosion, basalt, groundwater.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Accary, A.

assoc

Commission of the European Communities, Luxembourg. CORROSION BEHAVIOUR OF CONTAINER MATERIALS FOR GEOLO DISPOSAL OF HIGH-LEVEL RADIOACTIVE WASTE.

1985. 105 p. 85/00/00

CEC sponsored research conducted during 1983 on the potential of container materials for the geological vitrified high-level radioactive wastes is surveyed. CONTAINMENT: corrosion.

Smailos, E.; Schwarzkopf, W.; Koester, R.

Kernforschungszentrum Karlsruhe G.M.B.H. (Germany CORROSION BEHAVIOUR OF CONTAINER MATERIALS FOR THE D HIGH-LEVEL WASTE FORMS IN ROCK SALT FORMATIONS.

May 1987. 16 p. 87/05/00

Extensive laboratory-scale experiments to evaluate t corrosion behaviour of selected materials in brines situ experiments were performed.

CONTAINMENT: salt, corrosion.

AUTHOR

TYPE ORGANIZATION TITLE **PUBLISH** DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

Corbett, R.A.; Morrison, W.S.; Bickford, D.F. (E.I. Nemours and Co., Wilmington, DE)

priv MTPFB

CORROSION EVALUATION OF ALLOYS FOR NUCLEAR WASTE PRO Mater. Performance. (Feb 1987). V. 26(2) p. 40-44.

87/02/00

Corrosion scouting tests were performed on stainless nickel-based alloys in simulated process solutions t a facility to immobilize high-level radioactive wast incorporating it into borosilicate glass.

CONTAINMENT: corrosion.

Marsh, G.P.; Taylor, K.J.

govt

Úkaea Harwell Lab. (UK). CORROSION OF CARBON STEEL NUCLEAR WASTE CONTAINERS I SEDIMENT.

Aug. 1987. 41 p.

87/08/00

The report describes a study of the corrosion of car nuclear waste containers in deep ocean sediments, wh objective of estimating the metal allowance needed t that the containers were not breached by corrosion f

CONTAINMENT: corrosion, marine disposal.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Diegle, R.B.

govt Sandia National Lab. NM (USA).

CORROSION OF PROPOSED CANISTER MATERIALS IN SALT REP (WASTE POLICIES AND PROGRAMS, HIGH-LEVEL WASTE). Waste Management Conference 1984. Tucson, AZ (USA). 1984. V. 1, p. 607-612.

84/03/00

A titanium-molybdenum-nickel compound is being consicorrosion resistant alloy for fabricating radioactiv canister overpacks. Test of the materials are discus CONTAINMENT: corrosion.

Schweitzer, D.G.; Davis, D.S.

govt

Brookhaven National Lab. NY (USA). CORROSION RESISTANT STORAGE CONTAINER FOR RADIOACTIV 1984. 38 p.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

84/00/00

CONTAINMENT: corrosion.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Haberman, J.H.; Frydrych, D.J.

priv

Pacific Northwest Lab. WA (USA). CORROSION STUDIES OF A216 GRADE WCA STEEL IN HYDROTH MAGNESIUM-CONTAINING BRINES.

February 1988. 13 p.

88/02/00
The US Department of Energy's salt repository projec investigating the general corrosion resistance of ca steel as a candidate material for waste package cont CONTAINMENT: salt, corrosion.

Schwarzkopf, W.; Schoch, L.; Koester, R. (Kernforsch Karlsruhe G.M.B.H., Germany, F.R.. Inst. fuer Nuklea Entsorgungstechnik).

Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellschaft E.V., Bonn, Germany, (F.R.). CORROSION STUDIES OF PACKAGING MATERIALS FOR HIGH-LE WASTES. IN-SITU CORROSION EXPERIMENTS (FIELD TESTS A MINE). (in German)

P. 477-480. Annual Meeting on Nuclear Technology '87 Proceedings. Session 4: Fuel Cycle and Waste Process 829 p.

87/00/00

CONTAINMENT: corrosion, salt.

Westerman, R.E.; Pitman, SD.G.; Haberman, J.H. Pacific Northwest Lab. WA (USA).

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE CORROSION TESTING OF TYPE 304L STAINLESS STEEL IN TU GROUNDWATER ENVIRONMENTS.

November 1987. 69 p.

87/11/00

The stress-corrosion cracking resistance of type 304 steel to elevated temperatures in tuff rock and tuff environments was determined under irradiated and non conditions using u-bend specimens and slow strain ra CONTAINMENT: corrosion, thermodynamics, groundwater.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

Tait, J.C.; Hayward, P.J.; Rummens, H.E.C.; Wilkin, govt

Atomic Energy of Canada Limited. CRYSTALLIZATION AND VISCOSITY OF SPHENE GLASS CERAMI

SIMULATED NUCLEAR FUEL RECYCLE WASTE. 6 p. (1986). Reprinted from Physics and Chemistry of (1986) 27(3):134-139.

86/00/00

CONTAINMENT: glass.

Rankin, W.N.; Ward, C.R.

priv/govt

E.I. du Pont de Nemours & Co. SC (USA).
DECONTAMINATION OF DWPF CANISTERS BY GLASS FRIT BLAS POLICIES AND PROGRAMS, HIGH-LEVEL WASTE).

Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 285-291. 84/03/00

High-level radioactive waste at the Savannah River P incorporated in borosilicate glass for permanent dis During waste encapsulation operations, the outside o canisters will become contaminated. Tests have demon canister decontamination can be accomplished by blas surface with glass frit. Three blasting techniques a CONTAINMENT: glass, steel.

Teer, B.R. acad

DEMONSTRATION OF CASK TRANSPORTATION AND DRY STORAGE NUCLEAR FUEL.

J. Institute Nuclear Materials Management. V. 13. p.

Dual purpose shipping and storage casks for spent nu are being demonstrated.

CONTAINMENT: cask, transport.

Arneson, M.C.; Boase, C.A.; Chambers, K.W.; Gardy, E K.B.

govt Atomic Energy of Canada Limited. DESIGN AND USE OF A SEALED RADIOACTIVE LEACH TEST AP 6 p. (1986). Reprinted from Advances in Ceramics 20: Waste Management II, p. 551-556, 1986.

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

86/00/00

CONTAINMENT: leaching.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE Jones, T.E.; Coles, D.G.; Britton, R.C.; Burnell, J. Northwest Lab., Richland, WA).

priv

Argonne National Lab. Il (USA).

DEVELOPMENT AND EVALUATION OF A TRACER-INJECTION HYD TECHNIQUE FOR STUDIES OF WASTE PACKAGE INTERACTIONS. P. 421-432. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

A tracer-injection system has been developed for use characterizing reactions of waste package materials

hydrothermal conditions. CONTAINMENT: thermodynamics.

govt

DEVELOPMENT OF A CERAMIC-BASED WASTE FORM TO IMMOBIL DOE Idaho National Lab Report ONWI-617. Oct 86. 86/10/00

CONTAINMENT: ceramics.

Werner, E.A.

Kernforschungsanlage Juelich G.M.B.H. (Germany, F.R. Reaktorentwicklung; Technisce Hochschule Aachen. DEVELOPMENT OF A HIP-FACILITY (HOT ISOSTATIC PRESSUR PRODUCTION OF HIGH RADIOACTIVE BUNDLES FOR FINAL DIS German)

September 1987. 169 p.

87/09/00

A further development in the final disposure of high waste provides to embed the burnt nuclear fuel safel ceramic matrix. It is intended to use a HIP-facility compressing the ceramic.

CONTAINMENT: ceramics.

priv/govt

ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION

AUTHOR TYPE ORGANIZATION TITLE

REFERENCE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Ontario Hydro. (Canada).
DEVELOPMENT OF INTEGRATED METALLIC CONTAINER: PROJEC
Mechanical Research Department, Ontario Hydro. 1985.
85/00/00

CONTAINMENT:

Thomas, G.F. (Ontario Hydro Research Lab., Toronto) govt

DIFFUSIONAL RELEASE OF A SINGLE COMPONENT MATERIAL F CYLINDRICAL WASTE FORM.
Ann. Nucl. Energy. 1987. V. 14(6) P. 283-294.
87/00/00
The diffusion of a single component material from a cylindrical waste from, initially containing a unifo concentration of the material, is investigated.
CONTAINMENT: radionuclide migration.

Vance, E.R. govt
Atomic Energy of Canada Limited.
DISSOLUTION OF SPHENE AND SPHENE GLASS-CERAMICS IN A 9 p. (1986). Reprinted from Advances in Ceramics 20: Waste Management II, p. 231-239, 1986.
86/00/00

CONTAINMENT: groundwater, glass.

Berusch, A.; Gause, E. (Dept. of Energy, Washington, Bates, J.K.; Seefeldt, W.B. (eds.).
govt
Argonne National Lab. Il (USA).
DOE PROGRESS IN ASSESSING THE LONG TERM PERFORMANCE PACKAGE MATERIALS.
P. 13-28. Scientific Basis for Nuclear Waste Managem Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00
Under the Nuclear Waste Policy Act of 1982 (NWPA) (1 Dept. of Energy (DOE) is conducting activities to se characterize candidate sites suitable for the constroperation of a geologic repository for the disposal high-level nuclear wastes.
CONTAINMENT: basalt, salt.

AUTHOR

TYPE ORGANIZATION Rasmussen, T.L.; Schoonen, D.H.; Feldman, E.M.; Fish (Idaho National Engineering Lab., EG and G Idaho, In Falls); Post, R.G. (ed.).

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION

DRY ROD CONSOLIDATION TECHNOLOGY DEVELOPMENT. p. 555-562. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, A Arizona Nuclear Engineering Dept. 1987. 87/00/00

The DOE Office of Civilian Radioactive Waste Manager funding a program to consolidate commercial spent for testing in dry storage casks and to develop technolobe fed into other programs. CONTAINMENT: cask.

Kuchinski, F.A.

acad

Rutgers-The State University, NJ (USA). EFFECT OF LEAD SPECIES ON THE DURABILITY OF SIMULATI WASTE GLASS.

1987. 282 p. 87/00/00

It has been shown that the incorporation of lead met corrosion environment reduces the leaching rate of m glasses. This study evaluated the effects of lead me alloys, glasses and soluble species on the corrosion waste glass.

CONTAINMENT: corrosion, glass.

Feng, X.; Barkatt, A. (Catholic Univ. of America, Wa

Bates, J.K.; Seefeldt, W. B. (eds.).

acad

Argonne National Lab. Il (USA). EFFECTS OF AQUEOUS PHASE COMPOSITION ON THE LEACH BE NUCLEAR WASTE GLASSES.

P. 519-531. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00 A systematic matrix of leach tests on a West Valley

composition is described. It was concluded that increstrength appears to depress the leach rates in near-media but enhances the leach rates under moderately conditions.

CONTAINMENT: leaching.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE Jantzen, C.M. acad

EFFECTS OF Eh (oxidation potential) ON BOROSILICATE DURABILITY.

Advances in Ceramics 8: 385-393.

84/00/00

CONTAINMENT: glass.

|Ebert, W.L.; Bates, J.K.; Gerding, T.J.; Van Konynen

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Bates, J.K.; Seefeldt, W.B. (eds.). govt

Argonne National Lab. Il (USA). EFFECTS OF GAMMA RADIATION ON GROUNDWATER CHEMISTRY

REACTION IN A SATURATED TUFF ENVIRONMENT.
P. 613-622. Scientific Basis for Nuclear Waste Manag
Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

The Nevada Nuclear Waste Storage Investigations Proj completed a series of experiments that provide insig groundwater chemistry and glass waste form performan presence of a gamma radiation field at 900½C. The ma of radiation is to lower the groundwater pH to a val CONTAINMENT: tuff, groundwater, chemistry, glass.

Hietanen, S.; Klemetti, K.; Aaltonen, P. (Valtion Te Tutkimuskeskus, Espoo, Finland. Metallilaboratorio).

Voimayhtioeiden Ydinjaetetoimikunta, Helsinki, (Finl ELECTROCHEMICAL STUDY ON THE CORROSION OF THE METAL EMBEDDED IN CONCRETE. (in Finnish) January 1987. 37 p.

87/01/00

The corrosion rates of metal waste embedded in concr repository conditions is evaluated.

CONTAINMENT: corrosion.

priv/govt

Ontario Hydro. (Canada). ELECTRON BEAM WELDING FOR COPPER SPENT FUEL DISPOSAL

PHASE ONE. 1987. 118 P.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

187/00/00

CONTAINMENT:

PRIV/GOVT

Ontario Hydro. (Canada). ELECTRON BEAM WELDING OF A THICK-WALLED OXYGEN-FREE

MOCK-UP. 1987. 21 P. 87/00/00

CONTAINMENT:

Larson, D.E.; Allen, R.P.; Berger, D.N.; Bryan, G.H. (Pacific Northwest Lab., Richland, WA);

Post, R.G. (ed.).

ELECTROPOLISHING DECONTAMINATION SYSTEM FOR HIGH-LEV

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

CANISTERS.

p. 547-554. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ Arizona Nuclear Engineering Dept. 1987.

87/00/00

Pacific Northwest Lab. is preparing 30 radioactive c containing borosilicate glass for use in high-level repository related tests at the Asse salt mine.

CONTAINMENT: glass, salt.

Christ, B.G. (Transnuklear G.M.B., Hanau, Germany, F

Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellschaft E.V., Bonn, Germany, (F.R.). EMPLOY OF TRANSPORT/FINAL STORAGE CONTAINERS FOR RAD WASTES AT KONRAD MINE. (MOSTRAM PROTECT CONTAINER). P. 469-472. Annual Meeting on Nuclear Technology '87 Proceedings. Session 4: Fuel Cycle and Waste Process

829 p. 87/00/00

CONTAINMENT:

| Nuttall, K.; Chadha, J.A.; Carmichael, T.J.

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

govt Atomic Energy of Canada Limited.

ENGINEERED BARRIER RESEARCH IN CANADA. 18 p. (1986). Proceedings of an International Sympos Siting, Design and Construction of Underground Repos Radioactive Wastes Organized by the International At Agency and held in Hanover, p. 431-448, 3-7 March 19 86/00/00

CONTAINMENT:

Mills, W.J.

govt Hanford Engineering Development Lab. WA (USA). ENVIRONMENTALLY ASSISTED CRACKING MECHANISMS IN REPO

ENVIRONMENTS. Feb. 1987. 39 p. 87/02/00

This paper assesses how environmentally assisted cra mechanisms in candidate container materials can be i enhance the accuracy of long term projections of per the repository.

CONTAINMENT: geologic disposal.

James, L.A.; Duncan, D.R.

Hanford Engineering Development Lab, Richland, WA; R International Corp., Richland, WA; Rockwell Hanford ENVIRONMENTALLY-ASSISTED CRACKING BEHAVIOR OF A HIGH

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE

NUCLEAR WASTE CONTAINER ALLOY.

June 1987. 16 p.

87/06/00

The environmentally assisted cracking behavior of ca Society for testing and materials A27 steel in a sim groundwater environment was studied using both stati loaded and cyclically loaded specimens. CONTAINMENT: groundwater.

govt

Battelle Memorial Institute, OH (USA). Office of Nuc Isolation.

ERG REVIEW OF CONTAINMENT FAILURE PROBABILITY AND RE FUNCTIONAL DESIGN CRITERIA.

June 1986. 86/00/00

ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

CONTAINMENT: monitoring, design.

Heimann, R.B.

govt

Atomic Energy of Canada Limited. EVALUATING THE DURABILITY OF A SIMULATED NUCLEAR WAS STATISTICAL APPROACH.

88/00/00

CONTAINMENT: glass, analytical techniques.

Interrante, C.; Escalante, E.; Fraker, A.; Kaufman, W.; Shull, R.

govt

National Bureau of Standards. Washington, DC (USA). Materials Science and Engineering; Nuclear Regulator

Commission, Washington, DC (USA).
EVALUATION AND COMPILATION OF DOE WASTE PACKAGE TEST BIANNUAL REPORT, DECEMBER 1985-JULY 1986.

Mar 1987. 131 p. 87/03/00

This report summarizes results to date of NBS evalua Department of Energy (DOE) activities in waste packa for containment of radioactive high-level nuclear wa CONTAINMENT:

Interrante, C.; Escalante, E.; Fraker, A.; Harrison,
R.; Linzer, M.; Ricker, R.; Ruspi, J.

govt National Bureau of Standards, Washington, DC. Metallurgy Div.; Nuclear Regulatory Commission, Washi Div. of High-Level Waste Management.

EVALUATION AND COMPILATION OF DOE WASTE PACKAGE TEST BIANNUAL REPORT, AUG. 1986- JAN. 1987.

PUBLISH DATE ABSTRACT

October 1987, 136 p. 87/10/00

This report summarizes results of the National Bure Standards evaluations of Department of Energy active waste packages designed for containment of high-lever adioactive nuclear waste. The waste package is a prenament of a permanent report of a permanent of Energy active waste packages designed for containment of high-lever active waste packages and permanent of the CONTAINMENT:

KEYWORDS

LOCATION

REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Hall, A.R.; Boult, K.A.; Marples, J.A.C.

UKAEA Harwell Lab, Chemstry Div.; Department of the London (UK). EVALUATION OF SOLIDIFIED HIGHLY-ACTIVE WASTE: LEACH GLASS CONTAINING PU AND AM. FINAL REPORT- DEC. 1986 October 1987. 16 p.

87/10/00

Glass samples have been made on the 20G scale from 1 and inactive simulants of the magnox and thorp highthat are expected to be vitrified in the windscale plant.

CONTAINMENT: glass.

acad

EVALUATION OF THE LOCALIZED CORROSION OF CARBON STEE FOR NUCLEAR WASTE DISPOSAL IN GRANITE ENVIRONMENTS. Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 421. 85/09/00

CONTAINMENT: corrosion, geologic disposal.

Pitman, S.G. (Pacific Northwest Lab., Richland, WA). Bates, J.K.; Seefeldt, W.B. (eds.).

Argonne National Lab. Il (USA). EVÁLUATION OF THE SUSCEPTIBILITY OF ASTM A216 GRADE STEEL TO STRESS CORROSION CRACKING IN SIMULATED SALT

ENVIRONMENTS.

P. 239-249. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

In current conceptual designs, a mild steel (ASTM A2 is the reference container material for use in high nuclear waste packages intended for emplacement in a repository. The resistance of the steel to stress co cracking (SCC) is being investigated as part of the underway to verify the suitability of the material f package applications.

CONTAINMENT: corrosion, salt, steel.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Jansen, G.

Battelle Memorial Institute, Columbus, OH. Office of Waste Isolation.

EXPECTED WASTE PACKAGE PERFORMANCE FOR NUCLEAR WASTE IN THREE SALT FORMATIONS.

August 1987. 447 p.

87/08/00

Expected waste package lifetimes and radioactive rel the package were predicted at seven sites in three g formations for both commercial high-level waste and nuclear fuel from pressurized water reactors using n conditions from preliminary analyses.

CONTAINMENT: salt.

CONTAINMENT: Baic.

Godon, N.; Thomassin, J.H.; Touray, J.C. (Orleans Un France) (Lab de Metallogenie et Geochimie Minerale) acad

EXPERIMENTAL ALTERATION OF R7T7 NUCLEAR MODEL GLASS WITH DIFFERENT SALINITIES: IMPLICATIONS FOR THE SELE GEOLOGICAL REPOSITORIES.

J. Mater. Sci. January 1988. V. 23(1). P. 126-134.

88/01/00

In order to simulate the leaching of nuclear wastes repositories percolated by solutions of variable sal leaching tests of R7T7 glass in solutions with diffe contents have been performed at 900C and 1 bar using procedure.

CONTAINMENT: leaching, glass.

Sawyer, W.D. II; Daemen, J.J.K.

govt/acad

Arizona University, Tucson. Dept. of Mining and Geol Engineering; Nuclear Regulatory Commission, Washingt of Engineering.

EXPERIMENTAL ASSESSMENT OF THE SEALING PERFORMANCE O

BOREHOLE PLUGS. October 1987. 305 p.

87/10/00

Bentonite, which contains the clay mineral montmoril being considered as part of a multicomponent enginee which will seal geological repositories of high-leve radioactive wastes.

CONTAINMENT: clay.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT Wilson, C.N.; Shaw, H.F. (Westinghouse Hanford Co., FBates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il (USA). EXPERIMENTAL STUDY OF THE DISSOLUTION OF SPENT FUEL

NATURAL GROUND WATER.

P. 123-130. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

87/00/00

Semi-static dissolution tests using pressurized wate spent fuel rod segments and NNWSI reference J-13 well sealed stainless steel vessels at 850½C are being co support of the waste package task of the NNWSI proje CONTAINMENT: groundwater, steel.

Lammertz, H.; Kroth, K. (Kernforschungsanlage Jueli Germany, F.R. Inst. fuer Chemische Technologie der N Entsorgung)

Deutches Atomforum E.V., Bonn, Germany, F.R.; Kernte Gesellschaft E.V., Bonn, Germany, (F.R.). EXPERIMENTS ON THE OXIDATION OF RADIOLYTIC HYDROGEN WITH CEMENTED MAW. (in German)
P. 383-386. Annual Meeting on Nuclear Technology '88
Proceedings. Session 4.: Fuel Cycle and Waste Proces
Inforum Verl. May 1988. 789 p.

88/05/00 There are two reactions selected for closer study: h admixture of an oxidizing agent to the cement matrix backfilling of free spaces in the drum with a pourab containing an oxidizing agent. CONTAINMENT: cask, design.

McElroy, J.L.; Holton, L.K.Jr.; Burkholder, H.C.; Br Minor, J.E.

Pacific Northwest Lab. WA; Kernforschungszentrum Kar G.M.B.H., Germany, F.R.; Gesellschaft fuer Strahlen Umweltforschung M.B.H., Muenchen, Germany, (F.R.). FABRICATION OF ISOTOPIC HEAT AND RADIATION SOURCES F FEDERAL REPUBLIC OF GERMANY.

September 1987. 6 p.

87/09/00

Pacific Northwest Lab has filled 30 German-made cani highly radioactive borosilicate glass. These caniste containing specified amounts of 137Cs and 90 Sr, wil using a gas tungsten arc welder and will be decontam nonsmearable limits using an electropolishing system

KEYWORDS LOCATION REFERENCE | CONTAINMENT: glass.

AUTHOR

TYPE

|Gause, E.P.; Abraham, N. (Roy F. Weston, Inc., Washi Post, R.G. (ed.)

priv

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

FEASIBILITY ASSESSMENT OF COPPER-BASE WASTE PACKAGE MATERIALS IN NUCLEAR WASTE REPOSITORIES SITED IN BAS TUFF.

P. 501-508. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

This paper details the results of testing, literatur and evaluations that were performed for each of the criteria on each of the three conceptual container d CONTAINMENT: copper, basalt, tuff.

Tait, J.C.; Hocking, W.H.; Betteridge, J.S.; Bart, G govt

Atomic Energy of Canada Limited. FIELD BURIAL RESULTS AND SIMS ANALYSIS OF THE CHALK BLOCKS.

7 p. (1986). Reprinted from Advances in Ceramics 20: Waste Management II, p. 559-565, 1986. 86/00/00

CONTAINMENT: glass.

Pusch, R.; Boergesson, L. (Swedish Geological Co., L Sweden); Ramqvist, G. (El-Tekno Co., Luleaa, Sweden)

priv Swedish Nuclear Fuel and Waste Management Co., Stock FINAL REPORT OF THE BOREHOLE, SHAFT AND TUNNEL SEALI January 1987. 79 p.

87/01/00

The borehole plugging experiment comprised field tes sealing function and the practicality in handling an application of plugs consisting of segments of perfocasings filled with cylindrical blocks of highly com sodium bentonite.

CONTAINMENT: waste handling and emplacement.

|Peterson, E.W.; Lagus, P.L.; Lie, K.

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

priv S-Cubed, La Jolla, CA (USA).
FLUID FLOW MEASUREMENTS OF TEST SERIES A AND B FOR T
SCALE SEAL PERFORMANCE TESTS. December 1987. 141 p.

87/12/00

This report contains the results of gas flow, tracer and brine flow tests conducted on concrete seals in horizontal configurations. The test objectives were the seal performance and to determine if there exist effects which could influence future SSSPT designs. CONTAINMENT: risk analysis, safety analysis.

Alamo, J. (Valentia Univ, Spain. Dept. de Quimica In

TYPE ORGANIZATION

TITLE

PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Centro de Investigaciones Energeticas, Medioambienta Technologicas, Madrid, (Spain).

FORMATION OF NZP CERAMICS FOR THE IMMOBILIZATION OF

RADIONUCLIDES. P.95-106. Glasses and Glass-Ceramics for Nuclear Was Management. 1987. 212 p.

87/00/00

The problem of radioactive waste management is brief from the crystal chemical point of view. Some altern compared and the synthesis and properties of NZP cer reviewed.

CONTAINMENT: ceramics.

Rincon Lopez, J.M. (ed.)

Onofrei, M.; Raine, D.K.; Hocking, W.H.; George, K.; J.S.

govt

Atomic Energy of Canada Limited.
GAMMA RADIOLYSIS EFFECTS ON LEACHING BEHAVIOUR OF CE MATERIALS FOR NUCLEAR FUEL WASTE IMMOBILIZATION CONT 11 p. (1986). Reprinted from Advances in Ceramics 20 Waste Management II, p. 329-339, 1986.

86/00/00

CONTAINMENT: leaching, ceramics.

Tait, J.C.; Wilkin, D.L.; Hamon, R.F.

govt

Atomic Energy of Canada Limited.
GAMMA-RADIOLYSIS EFFECTS ON LEACHING OF NUCLEAR FUEL INFLUENCE OF GROUNDWATERS AND GRANITE ON GASEOUS RAD

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE PRODUCTS. 1986. 25 p. 86/00/00

CONTAINMENT: groundwater, granite, leaching.

Sartori, D.E. (Atomic Energy Corp. of South Africa I Pretoria); De Luca, G. (Electricity Supply Commissio Johannesburg, S.A.)

govt

South African Association of Physicists in Medicine

Pretoria.

GAMMA-RAY DOSE RATES RESULTING FROM THE RERACKING OF

SPENT FUEL INTO HIGH-DENSITY STORAGE RACKS.
P. 44. South African Association of Physicistes in M Biology: 27. Annual Congress, 11-13 March 1987, Bloe

1987. 87/00/00

CONTAINMENT: health.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE

priv/govt

Ontario Hydro. (Canada). GAS-METAL-ARC WELDING STUDIES FOR THE FINAL CLOSURE NUCLEAR FUEL WASTE DISPOSAL CONTAINERS.

1987. 47 P. 87/00/00

CONTAINMENT:

priv/govt

Ontario Hydro. (Canada). GAS-TUNGSTEN-ARC WELDING OF INCONEL 625 FOR IRRADIAT

FUEL WASTE DISPOSAL CONTAINERS.

1986. 13 P. 86/00/00

CONTAINMENT:

Boult, K.A.; Dalton, J.T.; Eccles, E.W.; Hough, A.; J.A.C.; Paige, E.L.; Sutcliffe, P.W.

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

UKAEA Harwell Lab. Chemistry Div.; Department of the London, (UK)

GLASS COMPOSITIONS SUITABLE FOR PFR WASTES. ANNUAL P REPORT 1985-86.

September 1987. 38 p.

87/09/00

In previous work, a glass composition had been ident suitable for vitrifying high-level wastes from the p fast reactor fuel reprocessing plant. This paper is continuation of these studies

CONTAINMENT: glass, reprocessing.

McDaniel, E.W.

govt

Oak Ridge National Lab. TN (USA)

GROUTING AS A WASTE IMMOBILIZATION/DISPOSAL METHOD.

1987. 18 p. 87/00/00

Many options are avaliable today for the immobilizat disposal of wastes that contain environmentally harm materials. The option chosen depends upon the type o regulatory requirements, and economics of process. CONTAINMENT: waste handling and emplacement.

Robinson, S.M.; Gilliam, T.M.; McDaniel, E.W.

govt Oak Ridge National Lab. TN (USA).

HEAT TRANSFER ANALYSES FOR GROUT DISPOSAL OF RADIOAC

DOUBLE-SHELL SLURRY AND CUSTOMER WASTES.

April 1987. 46 p.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

87/04/00

Grout immobilization is being considered by Rockwell operations as a permanent method for several radioac streams.

CONTAINMENT: thermodynamics.

Palancar, M.C.; Luis, M.A.; Luis, P.; Aragon, J.M.; (Universidad Complutense de Madrid, Spain. Dept. Fis de Procesos Industriales)

Rincon Lopez, J.M. (ed.).

Centro de Investigaciones Energeticas, Medioambietal Technologicas, Madrid, Spain; Instituto de Ceramica

Madrid, Spain.

HEAT TRANSFER IN VITRIFIED RADIOACTIVE WASTE.

P.107-119. Glasses and Glass-Ceramics for Nuclear Wa

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Management. 1987. 212 p.

87/00/00 An experimental method for measuring the thermal conconvection coefficient of borosilicate glass cylinde containing a simulated high-level radioactive waste, described.

CONTAINMENT: glass, thermodynamics.

Keyhani, M.; Kulacki, F.A.; Christiansen, R.N.

Ohio Stae Univ., Columbus, OH; Battelle Memorial Ins OH. Office of Nuclear Waste Isolation. HEAT TRANSFER WITHIN SPENT FUEL CANISTERS: PHASE TWO

EXPERIMENTAL LABORATORY STUDY.

April 1987. 207 p.

87/04/00

The primary goal of this research was to develop a goorrelation for convective heat transfer coefficient bundles such as those encountered in the storage and spent nuclear fuel.

CONTAINMENT: thermodynamics.

Hench, L.L; Clark, D.E.; Campbell, J. priv

HIGH-LEVEL WASTE IMMOBILIZATION FORMS. Nuclear and Chemical Waste Management 5: 149-173. 84/00/00

CONTAINMENT:

acad

HLW CONTAINER CORROSION IN GEOLOGICAL DISPOSAL CONDI Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 445.

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION 85/09/00

CONTAINMENT: corrosion.

|Aines, R.D.; Weed, H.C.; Bates, J.K. | govt

Lawrence Livermore National Lab. CA; Argonne Nationa

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS

(USA).
HYDROGEN SPECIATION IN HYDRATED LAYERS ON NUCLEAR WA
15 January 1987. 13 p.
87/01/15

As part of the Nevada Nuclear Waste Storage Investig Project, we have used infrared spectroscopy to deter hydrogen speciations in three nuclear waste glass co CONTAINMENT: glass.

Yanagisawa, Kazumichi; Nishioka, Mamoru; Yamasaki, N (Kochi Univ. (Japan).)

acad JNSTA

IMMOBILIZATION OF CESIUM INTO POLLUCITE STRUCTURE BY HOT-PRESSING.

J. Nucl. Sci. Technol. (Tokyo). (Jan 1987) 24(1):51-87/01/00

In order to immobilize Cs into pollucite structure, reactions of Cs with amorphous aluminosilicate (sili sinter) and with mixtures of low-quartz (silicastone Al(OH)3 were performed.

CONTAINMENT:

IMMOBILIZATION OF RADIOACTIVE WASTES IN HYDROTHERMAL ROCK, (III) PROPERTIES OF WASTE FORM CONTAINING SIMU HIGH-LEVEL RADIOACTIVE WASTE.

J. Nuclear Science and Technology - Japan (June 1986)

CONTAINMENT:

86/06/00

Glasser, F.P.; MacPhee, D.; Atkins, M.; Beckley, N.; (Aberdeen Univ., UK); McHugh, G.; Mattingly, N.J.; N Wilding, C.R. (UKAEA Harwell Lab. Materials Developm

govt/acad Department of the Environment. London (UK).

IMMOBILIZATION OF RADIOACTIVE WASTE IN CEMENT BASED

1988. 106 p. 88/00/00

The modelling of cement behavior at longer ages is r Factors studied include composition, pH and ESUB(H). stresses arising from irradiation are evaluated. CONTAINMENT: cement.

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE **PUBLISH** DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT Fujiki, Y.; Sasaki, T.; Komatsu, Y. govt/acad National Institute for Researchers in Inorganic Mate

(Japan) IMMOBILIZATION OF RARE-EARTH METAL IONS FROM AQUEOUS

CRYSTALLINE HYDRATED TITANIA FIBERS. Yogyo Kyokai-Shi. May 1987. V. 95(5) p. 465-467.

87/05/00 From a viewpoint of the treatment of high-level radiliquid wastes, the immobilization of some rare-earth from aqueous solutions was studied by the use of the titania fibers as a catrion adsorbent. CONTAINMENT:

James, J.M.; Smith, D.L.

UKAEA Atomic Energy Establishment, Winfrith. IMMOBILIZATION OF SHREDDED WASTE IN A CEMENT MONOLITY November 1987. 42 p. 87/11/00

During 1983-84 work was continued on the development process for the encapsulation of shredded waste in o CONTAINMENT: cement.

Solomah, A.G.; Sridhar, T.S.; Jones, S.C. govt

Atomic Energy of Canada Limited. IMMOBILIZATION OF URANIUM-RICH HIGH-LEVEL RADIOACTIVE WASTE IN SYNROC-FA.

7 p. (1986). Reprinted from Advances in Ceramics 20: Waste Management II:259-265, 1986. 86/00/00

CONTAINMENT:

Vance, E.R.; Urquhart, S.; Anderson, D.; George, I.1

Atomic Energy of Canada Limited. IMMOBILIZATION OF URANIUM-RICH HIGH-LEVEL NUCLEAR WA 10 p. (1986). Reprinted from Advances in Ceramics 20 Waste Management II, p. 249-258, 1986. 86/00/00

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

CONTAINMENT:

Bullen, D.B.; Gdowski, G.E.; McCright, R.D.

Science and Engineering Associates, Inc., Pleasanton Lawrence Livermore National Lab. CA (USA). IMPACT OF PHASE STABILITY ON THE CORROSION BEHAVIOR AUSTENITIC CANDIDATE MATERIALS FOR NNWSI. October 1987. 12 p.

87/10/00 A review of the technical literature with respect to stability of 3041, 3161 and 825 is presented. The immartensitic transformations, carbide precipitation a intermediate phase formation on the mechanical propecorrosion behavior of these alloys at repository rel conditions is discussed. CONTAINMENT: corrosion.

Obrien, M.J.; Rigg, R.B.

priv

British Nuclear Fuels Ltd., (UK). IMPROVEMENTS IN WASTE ENCAPSULATION.

29 July 1987. 87/07/29

A drum to recieve radioactive waste and an encapsula such as cement is located on a vibratable platform b charge chute. The device is described. CONTAINMENT: design.

Buelt, J.L.; Timmerman, C.L.; Oma, K.H.; Fitzpatrick Carter, J.G.

priv

Pacific Northwest Lab. WA (USA).

IN SITU VITRIFICAION OF TRANSURANIC WASTES: AN UPDAT

EVALUATION AND APPLICATIONS ASSESSMENT.

Mar 1987. 272 p.

87/03/00

In situ vitrification (ISV) is a process whereby jou immobilizes contaminated soil in place into a durabl crystalline waste form.

CONTAINMENT: glass.

Schwarzkopf, W.; Smalilos, E.; Koester, R.

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT | Kernforschingszentrum Karlsruhe G.M.B.H., Germany, F fuer Nukleare Entsorgungtechnik.

IN-SITU CORROSION STUDIES ON SELECTED HIGH-LEVEL WAS MATERIALS UNDER SIMULATED DISPOSAL CONDITIONS IN ROC

FORMATIONS.

January 1988. 19 p.

88/01/00 This work reports about in situ corrosion experiment

unalloyed steels, Ti 99, 8-Pd, Hastelloy C4, and iro alloys, as modular cast iron, Ni-resist D4 and Si-ca under simulated disposal conditions. CONTAINMENT: steel, corrosion.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

Moennich, E. govt

KEYWORDS LOCATION

IN-SITU VERIFICATION OF PU-CONTAINERS IN LONG-TERM S J. Inst. Nuclear Materials Management. V. 13. p. 277

REFERENCE

An integrated system for IAEA safeguards of plutoniu in long term storage areas is described. The system to provide fast response at reasonable costs for the identification of any anomaly which may be caused by uncontrolled movement of the containers in the stora CONTAINMENT:

AUTHOR

Hayward, P.J.; Vance, E.R.; Cann, C.D.; George, I.M. S.L.

TYPE ORGANIZATION TITLE

govt

Atomic Energy of Canada Limited.
INFLUENCE OF HIGHER WASTE LOADING ON CRYSTALLIZATION

PUBLISH

TITANOSILICATE GLASS-CERAMICS. 8 p. (1985). Reprinted from Materials Research Socie Proceedings 50, Scientific Basis for Nuclear Waste M IX, p. 347-354, 1985. 85/00/00

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

CONTAINMENT: glass.

AUTHOR TYPE ORGANIZATION TITLE

Congdon, J.W.

Heimann, R.B.

PUBLISH DATE

Savannah River Lab. SC (USA). INHIBITION OF NUCLEAR WASTE SOLUTIONS CONTAINING MUL AGGRESSIVE ANIONS. 1987, 14 p. 87/00/00

ABSTRACT

The inhibition of localized corrosion of carbon stee high-level radioactive solutions was studied using c potentiodynamic polarization scans, suplemented by p immersed coupon tests. CONTAINMENT: corrosion, chemistry.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

govt Atomic Energy of Canada Limited.
INTERACTION OF CEMENT AND RADIOACTIVE WASTE FORMS IN MULTICOMPONENT SYSTEMS TESTS AT 200 ½C. PART 1: LEAC SORPTION OF CESIUM, STRONTIUM AND ACTINIDES. Reprinted from Cement and Concrete Research (1988) 1

PUBLISH DATE ABSTRACT

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

| CONTAINMENT: leaching, thermodynamics, cement.

acad

INVESTIGATIONS ON THE ROLE OF SURFACE LAYERS IN HIW Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 203. 85/09/00

CONTAINMENT: glass, leaching.

Smailos, E.; Schwarzkopf, W.; Koester, R.; Storch, W Kernforschungszentrum Karlsruhe G.M.B.H. (Germany, F Fuer Nukleare Entsorgungstechnik. INVESTIGATIONS ON THE SUITABILITY OF CERAMIC CONTAIN CORROSION PROTECTION OF HIGH-LEVEL WASTE FORMS DURIN IN ROCK SALT FORMATIONS. Apr 1987. 84 p.

87/04/00

The suitability has been studied of ceramic containe as long-term corrosion protection for HLW forms unde hypothetical accident conditions in a rock salt repo CONTAINMENT: ceramics, salt, corrosion.

|Morris, J.B.; Hollinrake, A.; Wall, G.P.; Dalton, J. E.L.; Sutcliffe, P.W.; Finch, J.E.; Watson, B.

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

UKAEA Harwell Lab. Chemical Engineering Div.; Depart Environment, London, (UK).

JOULE CERAMIC MELTER. ANNUAL REPORT FOR THE PERIOD 1 30 JUNE 1986.

December 1987. 38 p.

87/12/00

Work has restarted on installing the full-scale joul melter which is to be used to evaluate the JCM proce vitrifying fast reactor high-level wastes. CONTAINMENT: glass.

govt Swedish Nuclear Fuel and Waste Management Co., Stock (Sweden) JSS PROJECT PHASE 4: EXPERIMENTAL AND MODELLING STUD GLASS DISSOLUTION IN REPOSITORY ENVIRONMENTS. FINAL October 1987. 295 p.

87/10/00 A goal of the JSS project was to develop a scientifi understanding the effects of waste package component groundwater chemistry, and other repository condition dissolution behavior, and to develop and refine a mo

processes governing glass dissolution. CONTAINMENT: glass, groundwater, chemistry.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Mataloni, P.; Scotti, E. (ENEA, Rome, Italy); Marroc Pietrelli, L. (ENEA, Casaccia, Italy. Centro Francai

Societe Française D'Energie Nucleaire, Paris, (Franç LABORATORY AND PILOT PLANT STUDIES FOR THE SOLIDIFIC ALUMINUM RICH HLW PRODUCED BY EUREX PLANT. P. 297-313. Recod 87. Nuclear Fuel Reprocessing and Management Vol. 1. Paris, France. Societe Francaise Nucleaire. 1987. 492 p.

87/00/00

ENEA started research activities to study a suitable fix the radioactive waste in a glass matrix; two main have been developed: the direct vitrification of the waste with an in-can melting vitrification plant. The has been studied in an inactive pilot plant called I declassification option to separate the radioactive from the salt matrix, developed on a laboratory scal traced solutions. CONTAINMENT: reprocessing.

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Bickford, D.F.; Pellarin, D.J. (E.I. Du Pont de Nemo Aiken, SC).

Bates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il (USA). LARGE SCALE LEACH TESTING OF DWPFD CANISTER SECTIONS P. 509-518. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

A large-scale leach test facility (LSLTF) has been c the U.S. Department of Energy's Savannah River Labor to perform static leach tests on 24-inch (610 mm)-di canister sections cut from simulated (nonradioactive forms cast under reference conditions.

CONTAINMENT: leaching.

Ishida, Masanobu; Yanagi, Tadashi; Terai, Ryohei (Os Suita (Japan). Faculty of Engineering). acad

LEACH RATES OF COMPOSITE WASTE FORMS OF MONAZITE- AN PHOSPHATE-TYPE.

J. Nucl. Sci. Technol. (Tokyo). (May 1987) 24(5):404 87/05/00

Leaching behaviour of simultaneously synthesized com form of monazite- and zirconium phosphate-type was i by making use of simulated high level waste. CONTAINMENT: leaching.

| Kamizono, Hiroshi (Japan Atomic Energy Inst., Tokai,

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

Tokai Research Establishment).

Japan Atomic Energy Research Inst. Tokyo. LEACHING BEHAVIOUR OF SIMULATED HIGH-LEVEL WASTE GLA Mar 1987. 21 p. 87/03/00

The author's work in the study on the leaching behav simulated high-level waste (HLW) glass was summarize CONTAINMENT: leaching, glass.

Hall, A.R. (UKAEA Atomic Energy Research Establishme Chemistry Div.) (ed.) assoc

Commission of the European Communities, Brussels, (B LEACHING MECHANISM THEORY.

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE

P. 12-67. Testing and Evaluation of Solidified High-Radioactive Waste. London, UK. Graham and Trotman Lt p. Radioactive Waste Management Series. 87/00/00

The topic of this contribution is the determination corrosion mechanism of the simulated hlw glass. CONTAINMENT: corrosion, glass, leaching.

Jantzen, C.M.; Bickford, D.F. acad

LEACHING OF DEVITRIFIED GLASS CONTAINING SIMULATED S Materials Research Society Symposia Proceedings 44:

85/00/00

CONTAINMENT: leaching, glass.

Okamoto, M.; Chino, K.; Baba, T.; Izumida, T.; Kawam Kikuchi, M. (Kansai Electric Power Co., Osaka, Japan Bates, J.K.; Seefeldt, W.B. (eds.).

priv Argonne National Lab. Il (USA)

LEÁCHING STUDIES OF CEMENT-GLÁSS PACKAGE CONTAINING

P. 393-398. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

A new solidification technique using cement-glass, w mixture of sodium silicate, cement, additives, and i the solidification reaction, was developed for sodiu liquid waste generated from pressurized water reacto

CONTAINMENT: glass, leaching, cement.

Bancroft, G.M.; Metson, J.B.; Kresovic, R.A.; Nesbit (University of Western Ontario, London). acad

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT |GCACA. |LEACHING STUDIES OF NATURAL AND SYNTHETIC TITANITES |SECONDARY ION MASS SPECTROMETRY.

Geochim. Cosmochim. Acta. (Apr 1987) 51(4):911-918.

87/04/00

Titanite has been proposed as the ceramic component glass-ceramic host for the immobilization of nuclear reprocessing wastes. Central to this proposal is the

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE

that titanite can be in thermodynamic equilibrium wi of natural groundwaters. In this paper, the authors experimental evidence for the thermodynamic argument from SIMS depth profiles. CONTAINMENT: glass, leaching, ceramics, thermodynami

CONTAINMENT: glass, leaching, ceramics, thermodynam

Hayward, P.J.; Watson, D.G.; McIlwain, A.K.; George, Mitchell, S.L. govt

Atomic Energy of Canada Limited.

LEACHING STÚDIES OF SPHENE CERAMICS CONTAINING SUBSTRADIONUCLIDES.

10 p. (1986). Reprinted from Nuclear and Chemical Wamanagement (1986) 6:71-80.

86/00/00

CONTAINMENT: leaching.

Bibler, N.E.; Jurgensen, A.R.

Savannah River Lab. SC (USA). LEACHING TC-99 FROM SRP GLASS IN SIMULATED TUFF AND GROUNDWATERS.

1987. 9 p. 87/00/00

Results of leach tests with TC-99 doped SRP borosiliglass are presented. Results indicated that under amoxidizing conditions TC-99 leached no faster than the glass-forming elements of the glass. CONTAINMENT: leaching, glass, tuff.

Boatner, L.A.; Sales, B.C.

govt

Ú.S. Department of Energy. LEAD-IRON PHOSPHATE GLASS AS A CONTAINMENT MEDIUM FO DISPOSAL OF HIGH-LEVEL NUCLEAR WASTE.

1984. 33 p. 84/00/00

Containment:

|Rincon, J.M. (Inst. de Ceramica y Vidrio, Madrid, Sp. | Lopez, J.M. (ed.)

acad

ORGANIZATION

TITLE **PUBLISH**

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Centro de Investigaciones Energeticas, Medioambienta

Technologicas, Madrid, (Spain). LIQUID INMISCIBILITY IN GLASSES AND NUCLEAR WASTE MA P.43-68. Glasses and Glass-Ceramics for Nuclear Wast 1987. 212 p. 87/00/00

The glass-in-glass phase separation or liquid inmisc glasses has been widely investigated in the past due applications in glazes, opal glasses and glass-ceram CONTAINMENT: glass.

Yunker, W.H.; Glass, R.S. (Westinghouse Hanford Co., WA)

Bates, J.K.; Seefeldt, W.B. (eds.)

priv

Argonne National Lab. IL (USA)

LONG-TERM CORROSION BEHAVIOR OF COPPER-BASE MATERIAL

GAMMA-IRRADIATED ENVIRONMENT.

P. 579-590. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

The US Department of Energy is currently evaluating feasibility of using copper-base minerals for the ma nuclear waste containers.

CONTAINMENT: corrosion.

Means, J.L.; Spinosa, E.D.; Markworth, A.J.; McCoy, N.E.; Kurth, R.E.; Taylor, G.C.

priv

Battelle Columbus Div. OH (USA).
LONG-TERM PERFORMANCE OF HIGH-LEVEL GLASS WASTE FORM REPORT, JUNE 1982-NOVEMBER 1986).

November 1987. 173 p.

87/11/00

This report investigates the long-term performance o used for high-level waste packages. Glass waste-form the topic of this report, focussed on borosilicate g both defence and commercial wastes. CONTAINMENT: glass.

Stahl, D.; Miller, N.E. govt

Battelle Columbus Labs. OH (USA).
LONG-TERM PERFORMANCE OF MATERIALS USED FOR HIGH-LEV
PACKAGING. ANNUAL REPORT, YEAR THREE, APRIL 1984 - A 1985. 233 p.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

85/00/00

CONTAINMENT:

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE

Means, J.L.; Markworth, A.J.; Mccoy, J.K.; Failey, 1 Stenhouse, M.J.; Kohli, R.; Taylor, G.C.

Battelle Columbus Div. OH; Nuclear Regulatory Commis Washington.

LONG-TERM PERFORMANCE OF SPENT FUEL WASTE FORMS.

September 1987. 158 p.

This report investigates the leaching/dissolution ch of spent fuel in simulated groundwaters.

CONTAINMENT: leaching, groundwater.

Pescatore, C.; Sastre, C.

Brookhaven National Lab. NY (USA).

MASS TRANSFER FROM PENETRATIONS IN WASTE CONTAINERS. 1987. 10 p. 87/00/00

Recent studies have indicated that localized corros relatively small area of a waste container may impair containment function to such an extent that larger is be possible that from the bare waste form. CONTAINMENT: radionuclide migration, corrosion.

Chapman, R.L; Sorensen, K.B. priv EG and G Idaho Co., ID (USA).
MATERIALS ISSUES IN CASK DEVELOPMENT. 1987. 4 p.

87/00/00

The OCRWM sponsored from-reactor cask systems acquist is developing a family of casks suitable for transport commercial spent fuel. The program is procuring up to designs for further development and eventual licensis

CONTAINMENT: cask, transport.

Merz, M.D.; Gerber, F.; Wang, R. (Pacific Northwest Richland, WA).
Bates, J.K.; Seefeldt, W.B. (eds.).

priv

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Argonne National Lab. Il (USA). MCC CORROSION TESTS AT REFERENCE TESTING CONDITIONS STEEL IN HANFORD GROUND WATER.

P. 215-226. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

The Materials Characterization Center (MCC) at Pacif Laboratory is performing three kinds of corrosion te Basalt Waste Isolation Project (BWIP) to establish t

interlaboratory reproducibility and uncertainty of c rates of container materials for high-level nuclear CONTAINMENT: corrosion.

AUTHOR

Elsen, R.; Sclich, M. (Tecnische Hochschule Aachen, F.R.. Lehrstuhl und Inst. fuer Elektrische Anlagen u Energiewirtschaft).

TYPE ORGANIZATION

Deitsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellscaft E.V., Bonn, Germany, (F.R.).
MEASURING NUCLEAR HEAT SOURCES IN MAW-WASTE DRUMS BY

TITLE

CALORIMETRY. (in German)

PUBLISH

P. 449-452. Annual Meeting on Nuclear Technology '87 Proceedings. Session 4: Fuel Cycle and Waste Process 87/00/00

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

CONTAINMENT: thermodynamics.

AUTHOR TYPE ORGANIZATION TITLE

Francois, Y, Dourthe, M.; Jaouen, C.

PUBLISH

CEA Centre D'etudes Nucleaires de Fontenay-aux-Roses MECHANICAL BEHAVIOUR OF THE ASBESTOS-CEMENT CONTAINE GEOLOGICAL DISPOSAL OF ALPHA LEVEL TECHNOLOGICAL WAS COGEMA REPROCESSING PLANTS.

DATE ABSTRACT March 1987. 8 p. 87/03/00

KEYWORDS LOCATION REFERENCE

For the safety assessment of the SGN Asbestos cement concept selected by Cogema for the conditioning of c alpha technological wastes from the UP3-UP2 800 repr plants, a general survey has been carried out to con its confinement capacity and its mechanical strength CONTAINMENT: safety analysis, geologic disposal.

AUTHOR

Hall, A.R. (UKAEA Atomic Energy Research Establishme Chemistry Div.) (ed.)

TYPE

assoc

ORGANIZATION TITLE PUBLISH

Commission of the European Communities, Brussels, (B MECHANICAL STABILITY.

P. 320-330. Testing and Evaluation of Solidified Hig Radioactive Waste. London, UK. Graham and Trotman Lt p. Radioactive Waste Management Series. 87/00/00

DATE ABSTRACT

Critical stresses were measured for a series of glas containing simulated hlw. A soda-lime glass was test comparison. Fracture stresses, fracture toughness an growth were measured and the data evaluated.

KEYWORDS LOCATION REFERENCE CONTAINMENT: glass.

AUTHOR

Mathew, P.M.; Krueger, P.A. (Atomic Energy of Canada Pinawa, Manitoba). Bates, J.K.; Seefeldt, W.B. (eds.).

TYPE

govt

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Argonne National Lab. Il (USA). METAL-MATRIX CORROSION STUDIES IN CANADIAN SHIELD G GROUNDWATERS.

P. 261-270. Scientific Basis for Nuclear Waste Manage Pittsburgh, PA (USA). Materials Research Society. 1

The Canadian Nuclear Fuel Waste Management Program two basic supported-shell container concepts for use immobilization. One concept uses a compacted particular material within the container to support a thin, corrosion-resistant shell. The other concept, called metal-matrix concept, uses a cast-in-place metal mat shell support. This paper describes corrosion studies candidate matrix materials.

CONTAINMENT: corrosion, granite, groundwater.

Fayer, M.J. priv

Pacific Northwest Lab. WA (USA).

MODEL ASSESSMENT OF PROTECTIVE BARRIER DESIGNS: PART November 1987. 52 p.

87/11/00

Protective barriers are being considered for use at site to enhance the isolation of radioactive wastes plant and animal intrusion. This study assesses the effectiveness of protective barriers for isolation of from water. In this report, barrier designs are reviseveral barrier modelling assumptions are tested. CONTAINMENT: design, modelling.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE

Grambow, B.; Zwicky, H.U.; Bart, G.; Bjoerner, I.K.; (Hahn-Meitner-Institut Berlin, West Germany). Bates, J.K.; Seefeldt, W.B. (eds.).

Argonne National Lab. Il (USA).
MODELING OF THE EFFECT OF IRON CORROSION PRODUCTS ON WASTE GLASS PERFORMANCE.

P. 471-481. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

Experiments performed in the frame of the JSS-Projec Japanese (CRIEPI), Swiss (NAGRA), Swedish (SKB) Proj demonstrated that the effect of iron corrosion produ long-term stability of HLW-glass depends on the effe surface area of the corrosion products. CONTAINMENT: corrosion, glass.

Walton, J.C.; Sagar, B.

MODELLING PERFORMANCE OF STEEL CONTAINERS IN HIGH-LE REPOSITORY ENVIRONMENTS: IMPLICATIONS FOR WASTE ISOL Radioact. Waste Manage. Nucl. Fuel Cycle. March 1988 323-347. 88/05/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

The concept explored is one in which a substantial c allowance is provided in design leading to a relative thick-walled container. CONTAINMENT: steel, modelling, corrosion.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Heimann, R.B. (Atomic Energy of Canada Ltd., Pinawa, Bates, J.K.; Seefeldt, W.B. (eds.). govt

Argonne National Lab. Il (USA)

MULTICOMPONENT SYSTEMS TESTS ON USED FUEL AND FUEL R

GLASS AT 2000 C.
P. 409-420. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Experiments were performed at 2000 C and 8.5 MPA on a borosilicate waste glass in contact with clay, con metals, groundwater and granite selected as reference in the Canadian Nuclear Fuel Waste Management Progra CONTAINMENT: granite, groundwater, glass.

| Ewing, R.C.; Jercinovic, M.J. (Univ. of New Mexico)

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Bates, J.K.; Seefeldt, W.B. (eds.).

acad

Argonne National Lab. Il (USA).
NATURAL ANALOGUES: THEIR APPLICATION TO THE PREDICTI LONG-TERM BEHAVIOUR OF NUCLEAR WASTE FORMS.

P. 67-83. Scientific Basis for Nuclear Waste Managem Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

This paper reviews the use of natural analogues to p long-term behaviour of nuclear waste form glasses. CONTAINMENT: glass, natural analogues.

Pederson, L.R.; Gray, N.J.; Hodges, F.N.

Pacific Northwest Lab. WA (USA).
NEAR FIELD ENVIRONMENT RESEARCH AT PNL RELEVANT TO B MIGRATION PHENOMENA.

Proceedings of Salt Repository Project's Workshop on Migration. March 1987, p. 16-18.

87/03/00

Heat and radiation resulting from emplacement of a h nuclear waste package in a repository in salt will c physical and chemical changes in the host rock and a present. These changes may alter the performance of package materials.

CONTAINMENT: salt.

|Heimann, R.B.

govt Atomic Energy of Canada Limited. NUCLEAR FUEL WASTE MANAGEMENT AND ARCHAEOLOGY: ARE A GLASSES INDICATORS OF LONG TERM DURABILITY OF MAN MA PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

MATERIALS?
6 p. (1986). Reprinted from Glass Technology (1986)
86/00/00

CONTAINMENT: glass.

AUTHOR
TYPE
ORGANIZATION
TITLE

TITLE
PUBLISH
DATE

ABSTRACT

assoc Commission of the European Communities, Luxembourg. NUCLEAR SCIENCE AND TECHNOLOGY: DESIGN STUDY ON CONT GEOLOGICAL DISPOSAL OF HIGH-LEVEL RADIOACTIVE WASTE. Ove Arup & Partners, London, 1985. 86 p. 85/00/00

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT | CONTAINMENT: geologic disposal.

Jantzen, C.M.

priv Savannah River Lab. SC (USA). NUCLEAR WASTE GLASS CORROSION MECHANSIMS.

April 1987. 52 p.

87/04/00
Dissolution of nuclear waste glass occurs by corrosi similar to those of other solids. The effects of impoxidation potential conditions existing in natural e on glass dissolution is described in the context of diagrams, pH potential diagrams, for glass.

CONTAINMENT: glass, corrosion.

Pfeiffer, P.A.; Kennedy, J.M.

Argonne National Lab. IL (USA).

NUCLEAR WASTE PACKAGE FABRICATED FROM CONCRETE.

March 1987. 6 p. 87/03/00

The main concern of this site, is contamination of t groundwater by release of radionuclides from the was The containment barriers are the primary waste containment materials and are intended to provide con the nuclear waste up to a thousand years.

| CONTAINMENT: concrete.

Pfeiffer, P.A.; Kennedy, J.M. (Argonne National Lab. Wittman, F.H. (ed.).

NUCLEAR WASTE PACKAGE FABRICATED FROM CONCRETE. (HAN P. 215-220. Transactions of the 9th International Constructural Mechanics in Reactor Technology. Vol. H. Concrete Structures. Rotterdam (Netherlands). Balkem p.

87/00/00 A 12 in. thick container gives a maximum compressive

AUTHOR TYPE

about 3400 PSI and a maximum tensile stress of about CONTAINMENT: concrete.

Liu, D.; Piercy, G.R.; Purdy, G.R.; Hayward, P.J. govt

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE **PUBLISH**

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE

Atomic Energy of Canada Limited.
NUCLEATION OF SPHENE IN GLASS CERAMICS FOR THE IMMOB NUCLEAR WASTE.

11 p. (1985). Reprinted from Physics and Chemistry o (1985) 26(6). 85/00/00

CONTAINMENT: glass, ceramics.

acad

OPTIMIZATION OF CONCRETE CONTAINER COMPOSITION IN RA WASTE MANAGEMENT.

Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 469. 85/09/00

CONTAINMENT: concrete.

Hall, A.R. (UKAEA Atomic Energy Research Establishme Chemistry Div.) (ed.)

Commission of the European Communities, Brussels, (B PARAMETRIC STUDY OF CORROSION STABLILITY. P. 173-275. Testing and Evaluation of Solidified Hig Radioactive Waste. London, UK. Graham and Trotman Lt p. Radioactive Waste Management Series. 87/00/00

Three studies on simulated waste glasses are reporte Characterization of simulated highly active waste fo including corrosion and leaching, effect of temperat corrosion in clay media, leaching of americium from an experimental study of the influence of various pa aqueous leach rates of radioactive glass are describ CONTAINMENT: glass, corrosion, leaching.

Solomah, A.G.; Richardson, P.G.; McIlwain, A.K. govt

Atomic Energy of Canada Limited.
PHASE IDENTIFICATION, MICROSTRUCTURAL CHARACTERIZATI MICROANALYSES AND LEACHING PERFORMANCE EVALUATION OF

CRYSTALLINE CERAMIC WASTE FORM. 9 p. (1987). Reprinted from Journal of Nuclear Mater

148:157-165.

87/00/00

ABSTRACT KEYWORDS LOCATION REFERENCE

CONTAINMENT: leaching.

AUTHOR TYPE ORGANIZATION TITLE

govt Lawrence Livermore National Lab. CA (USA). PLAN FOR GLASS WASTE FORM TESTING FOR NNWSI (NEVADA STORAGE INVESTIGATIONS) September 1987. 33 p.

PUBLISH DATE 87/09/00 ABSTRACT

The purpose of glass waste form testing is to determ of release of radionuclides from the breached glass

containers.

Aines, R.D.

CONTAINMENT: radionuclide migration, glass.

KEYWORDS LOCATION

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

|Ratigan, J.L. (RE/SPEC Inc., Rapid City, SD)

Pacific Northwest Lab. WA (USA).
POST EMPLACEMENT CONDITIONS IN THE VERY-NEAR FIELD. Proceedings of Salt Repository Project's Workshop or Migration. March 1987, p.15, Appendix/C.37-C.46. 87/03/00

Emplacement of a radioactive waste package in a bore floor of an underground drift in salt will increase and mean stress in the near vincinity of the waste reventual temperature rise in the waste package will package spacing among other things. CONTAINMENT: salt.

Gahlert, S.

Kernforschungszentrum Karlsruhe G.M.B.H., Germany, I fuer Material und Festkoeperforschung POWDER TECHNOLOGICAL VITRIFICATION OF SIMULATED HIGH (in German)

March 1988. 212 p.

88/03/00

High-level waste simulate from the reprocessing of 1 reactor and fast breeder fuel was vitrified by powde technology.

CONTAINMENT: glass.

Gahlert, S.; Adelhelm, C.; Ondracek, G. (Kernforschu |Karlsruhe G.M.B.H., Germany, F.R., Inst. fuer Materi TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellschaft E.V., Bonn, Germany, (F.R.).
POWDER TECHNOLOGY VITRIFICATION OF HIGH-LEVEL RADIOA FROM FBR AND LWR REPROCESSING.

P. 445-448. Annual Meeting on Nuclear Technology '87 Proceedings. Session 4: Fuel Cycle and Waste Process 829 p. 87/00/00

CONTAINMENT: glass, reprocessing.

Napravnik, J.; Sazavsky, P.; Skaba, V.; Zahalka, F. assoc

PRACTICAL RESULTS OF THE MESA 1 LINE CALCINATOR TRIA Nukleon, 1987. p. 3-6. 87/00/00 MESA 1, a mobile calcination and cementation unit, i fixate liquid radioactive wastes. Several experiment performed on model non-radioactive wastes. CONTAINMENT: volume reduction, cement.

O'Neal, W.C. govt

PRECLOSURE ANALYSIS OF CONCEPTUAL WASTE PACKAGE DESI NUCLEAR REPOSITORY IN TUFF.

LLNL Report UCRL 53595. Nov. 1, 1984. 68 p.

84/11/01

LLNL is developing waste package designs to meet NRC for disposal of radioactive wastes in a tuff reposit Mountain. Nuclear criticality safety analysis of condesigns, thermal analysis, and structural analysis a discussed.

CONTAINMENT: safety analysis, design.

Jantzen, C.M. acad

PREDICTION OF NUCLEAR WASTE GLASS DURABILITY FROM NA ANALOGUES.

Advances in Ceramics 20: (In press)

89/00/00

KEYWORDS LOCATION REFERENCE CONTAINMENT: glass, natural analogues.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

priv/govt Ontario Hydro. (Canada). PRELIMINARY ASSESSMENT OF REMOTE HANDLING OF THE THI PARTICULATE-PACKED CONTAINER.

1986. 68 p.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

CONTAINMENT: waste handling and emplacement.

AUTHOR TYPE ORGANIZATION Aubert, B.

86/00/00

TITLE

Societe Generale pour les Techniques Nouvelles, St.-Quetin-en-Yvelines, (France). PROCESS FOR IMMOBILIZATION OF NUCLEAR WASTES IN A BI GLASS. (in French)

PUBLISH DATE ABSTRACT 9 October 1987; 8 April 1986. 22 p.

KEYWORDS

87/10/09 In this process are mixed: a silica based gel precur concentrated aqueous solution of a boron compound are concentrated aqueous solutions of other components glass.

LOCATION REFERENCE CONTAINMENT: glass.

AUTHOR TYPE ORGANIZATION TITLE

Knoechel, A.; Carboo, D.

PUBLISH DATE ABSTRACT

Kernforschungszentrum Karlesruhe G.M.B.H., Germany PROCESS FOR SOLIDFYING TRITIUM FROM LIQUIDS CONTAIN

11 June 1987; 7 December 1985. 15 p.

87/06/11

Mar 1987. 19 p. 87/03/00

CONTAINMENT: cement.

cement.

KEYWORDS LOCATION REFERENCE

The purpose of the invention is to create a process solidifying tritium from liquids containing HTO, in solidification products are obtained which on the or a relatively high resistance to leaching and on the permit a relatively high loading with radioactive to together with a simple process and low costs of appa CONTAINMENT: glass, leaching.

AUTHOR

Landles, A.J.; Awmack, A.F.; Baxter, W. (British Nuc Ltd., Sellafield). laovt

Department of the Environment. London (UK). PROGRESS ON IMMOBILISATION OF PLUTONIUM RESIDUES AND

Laboratory scale experiments have been carried out t feasibility of encapsulating plutonium contaminated

PLUTONIUM CONTAMINATED MATERIALS IN CEMENT.

TYPE

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION McCright, R.D.; Halsey, W.G.; Van Konynenburg, R.A. govt Lawrence Livermore National Lab. CA (USA).
PROGRESS REPORT ON THE RESULTS OF TESTING ADVANCED (DESIGN METAL BARRIER MATERIALS UNDER RELEVANT ENVIRO CONDITIONS FOR A TUFF REPOSITORY. December 1987. 114 p.

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

87/12/00

This report discusses the performance of candidate m materials envisioned for fabricating waste package c for long-term disposal at a possible geological repo Yucca Mountain, Nevada. CONTAINMENT: tuff.

Maerk, T.D.; Ritter, W. (Institut Fuer Experimetalph Innsbruck, Austria)

Bates, J.K.; Seefeldt, W.B. (eds.)

Argonne National Lab. IL (USA).
RADIATION DAMAGE AND IT'S ANNEALING IN SODIUM SILICA
P. 659-669. Scientific Basis for Nuclear Waste Manag
Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Annealing of radiation damage in artificial sodium s has been studied by absorption spectroscopy for diff radiation sources as a function of annealing time an temperature.

CONTAINMENT: glass.

Denatale, J.F. (California Univ., Davis. Dept. of Me Engineering) Rincon Lopez, J.M. (ed.)

Centro de Investigaciones Energeticas, Medioambienta Technologicas, Madrid, (Spain).
RADIATION DAMAGE IN NUCLEAR WASTE GLASS.

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT P.179-208. Glasses and Glass Ceramics for Nuclear Wa Management. 1987. 212 p.

87/00/00

Silicate glass is a promising material for the conta nuclear wastes. The need for an accurate characteriz waste properties makes an undersanding of the radiat of the glass an important issue.

CONTAINMENT: glass, waste characterization.

Weber, W.J.

govt

Battelle Pacific Northwest Lab. WA (USA).
RADIATION EFFECTS ON NUCLEAR WASTE STORAGE MATERIALS Nuclear Instruments & Methods in Physics Research. F 229(2-3). p. 527-534.

84/02/00

The self-radiation of packaged radioactive waste mat addressed. The effects of self-radiation damage resu swelling and enhanced leaching of the host material wastes. These effects are minimal in glass but are m pronounced in crystalline forms. As a result of radi groundwaters exposed to radiation will form free rad molecular species that can alter the repository envi CONTAINMENT:

KEYWORDS LOCATION REFERENCE AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

Paddock, R.A.; Lerman, A.; Ditmars, J.D.; Macdonald Peerenboom, J.P.; Was, G.S.; Harrison, W.

govt

Argonne National Lab. TN (USA).
RADIOACTIVE WASTE ISOLATION IN SALT: PEER REVIEW OF NUCLEAR WASTE ISOLATION'S DRAFT REPORT ON A MULTIFAC DESIGN TO INVESTIGATE UNIFORM CORROSION OF LOW-CARBO January 1987. 85 p.

87/01/00

The several major areas of concern identified by per panelists are important to the credibility of the tree. proposed in the memorandum and are to be adequately there.

CONTAINMENT: corrosion, salt.

Nelson, R.E.; Ziegler, A.A.; Serino, D.F.; Basnar, I priv

ROCKWell International Corp. WA (USA). RADIOACTIVE WASTE PROCESSING APPARATUS.

19 May 1987. Vp. 87/05/19

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE This patent describes an apparatus for use in proces radioactive waste materials for storage in solid for container having a substantially cylindrical wall. CONTAINMENT:

Alexander, W.A.

govt

Oak Ridge National Lab. TN (USA).

RCRA (RESOURCE CONSERVATION AND RECOVERY ACT) WASTE LEAD.

1987. 9 p.

Lead, a high-density material, is a very effective s gamma radiation and has been utilized extensively at association with radioisotope production and nuclear CONTAINMENT:

Oversby, V.M. govt

REFERENCE WASTE FORMS AND PACKING MATERIALS FOR THE NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT. LLNL Report UCRL-5351, March 30, 1984. 29 p.

Waste packages are being designed for three waste fo support of the Nevada Nuclear Waste Storage Investig Project. These are: LWR spent fuel, either as intact or as consolidated fuel pins; reprocessed commercial waste in the form of borosilicate glass; and reproce high-level waste.

CONTAINMENT: design.

AUTHOR TYPE ORGANIZATION TITLE **PUBLISH** DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

govt

REFERENCE WASTE PACKAGE ENVIRONMENT REPORT. LLNL Report UCRL-53726. October 1, 1986. 31 p. 86/10/01

CONTAINMENT:

Scott, D.W.; Moore, T.L.; Funnell, G.J.; Schiffhauer (Rockwell Hanford Operations, Richland, WA) Post, R.G. (ed.)

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

REMOTE INSTALLATION OF A NEW RISER ON AN EXISTING WE SITE TANK.

P. 435-440. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00 A method of remotely installing new access ports, ri existing high level radioactive tanks has been devel Rockwell Hanford operations for use on two of the st at the West Valley demonstration project.

CONTAINMENT:

Claiborne, H.C.; Croff, A.G.; Griess, J.C.; Smith, F govt

Oak Ridge National Lab. TN (USA). REPOSITORY ENVIRONMENTAL PARAMETERS AND MODELS/METHO RELEVANT TO ASSESSING THE PERFORMANCE OF HIGH-LEVEL

PACKAGES IN BASALT, TUFF, AND SALT. September 1987. 244 p.

87/09/00

This document provides specifications for models/met that could be employed in determining post-closure r environmental parameters relevant to the performance high-level waste packages for various disposal proje CONTAINMENT: modelling, basalt, tuff, salt.

Sullivan, T., et al. govt

Brookhaven National Lab. NY (USA).
REVIEW OF DOE WASTE PACKAGE PROGRAM: SEMIANNUAL REPO THE PERIOD APRIL 1985 - SEPTEMBER 1985. Technical Report. 100 p.

85/00/00

CONTAINMENT:

Hayward, P.J. govt

ORGANIZATION TITLE

PUBLISH

Atomic Energy of Canada Limited.
REVIEW OF PROGRESS IN THE DEVELOPMENT OF SPHENE-BASI GLASS-CERAMICS.

8 p. (1985). Reprinted from Materials Research Societ Proceedings 50, Scientific Basis for Nuclear Waste 1 IX, p. 355-362, 1985.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE 85/00/00

CONTAINMENT: glass, ceramics.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE Coles, D.G.; Peters, R.D. priv

Pacific Northwest Lab. WA (USA) SCALE-UP CONSIDERATIONS RELEVANT TO EXPERIMENTAL STU NUCLEAR WASTE-PACKAGE BEHAVIOUR. 1986. 157 p. 86/00/00

AUTHOR TYPE ORGANIZATION

PUBLISH DATE ABSTRACT

TITLE

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

CONTAINMENT:

Bates, J.K.; Seefeldt, W.B. (eds.). govt Argonne National Lab. Il (USA). SCIENTIFIC BASIS FOR NUCLEAR WASTE MANAGEMENT X: MAT RESEARCH SOCIETY SYMPOSIA PROCEEDINGS, VOLUME 84. Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

This book presents the papers given at a symposium o waste management. CONTAINMENT: corrosion, glass, groundwater, chemistr

Filippi, A.M.; Sprecace, R.P.

US Commissioner of Patents, Washington, DC (USA). SEAL WELDED CAST IRON NUCLEAR WASTE CONTAINER. 20 Oct. 1987. VP. 87/10/20

An article of manufacture is described comprising a container having an opening at one end and a cast ir the other. CONTAINMENT: design.

Oliver, D.L.R. (Mechanical Engineering Dept., Univ. OH)

Post, R.G. (ed.) acad

SENSITIVITY OF PERFORMANCE ASSESSMENT OF THE ENGINEE TO NUANCES OF RELEASE RATE CRITERIA. P. 131-136. Waste Management '87: Waste Isolation in DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS

|Technical Programs, and Public Education. Tucson, AZ | of Arizona Nuclear Engineering Dept. 1987. | 87/00/00

The United States Nuclear Regulatory Commission has criteria for the long-term performance of proposed h waste repositories.

CONTAINMENT: radionuclide migration, regulations.

Bucholz, J.A. (Oak Ridge National Lab., TN).

SHIELDING METHODS FOR EVALUATING THE VERSATILITY OF SHIPPING CASKS.

Trans. Am. Nucl. Soc. 1987. V. 54 P. 296-298.

87/00/00

The paper shows some of the results corresponding to hypothetical cask containing 21 pressurized waste re assemblies.

CONTAINMENT:

Carnahan, C.L.

Lawrence Berkeley Lab. CA (USA).
SIMULATION OF EFFECTS OF REDOX AND PRECIPITATION ON URANIUM SOLUTION SPECIES IN BACKFILL.

December 1987. 12 p.

87/12/00

This investigation addresses the problem of predicti rate of migration of redox-sensitive solution specie packing and backfill materials under conditions of voxidation potential.

CONTAINMENT: backfill.

Weber, W.J.; Maupin, G.D. priv Pacific Northwest Lab. WA (USA). SIMULATION OF RADIATION DAMAGE IN ZIRCON. June 1987. 17 p.

Radiation damage in natural zircon materials due to has been simulated in lab. studies using Pu-doped sy zircon. These studies confirm that lab. testing can predict the radiation-damage behavior of radioactive over geologic time, and also provide new insights in interpretation of radiation damage in natural minera CONTAINMENT:

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT Reimus, T.W.; Kuhn, W.L.

priv

Pacific Northwest Lab. WA (USA).

SIMULATION USED TO QUALIFY NUCLEAR WASTE GLASS FOR July 1987. 10 p. 87/07/00

This work demonstrates that simulation techniques cassist in qualifying nuclear waste glass for dispos CONTAINMENT: glass.

Vance, E.R.

govt

Atomic Energy of Canada Limited.

SOL-GEL PRODUCTION OF TITANOSILICATE GLASS-CERAMICS WASTE IMMOBILIZATION.

4 p. (1986). Reprinted from Journal of Materials Sc 21:1413-1416.

86/00/00

CONTAINMENT: glass.

Kunz, W.; Gelfort, E.; Gruenthaler, K.H.; Baukal, W

Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kern Gesellschaft E.V., Bonn, Germany, (F.R.). SOLIDIFICATION OF TRITIUM-CONTAINING WATERS ON A TEFOR THE PRODUCTION OF HOOPS FOR FINAL STORAGE. PT.1 CONCEPT, MATERIALS SELECTION, STATUS OF THE PROJECT P. 461-464. Annual Meeting on Nuclear Technology '8 Proceedings. Session 4: Fuel Cycle and Waste Process 29 p. 87/00/00

CONTAINMENT:

Taylor, P. govt

Atomic Energy of Canada Limited.

SOLUBILITY AND STABILITY OF INORGANIC CARBONATES: AI

THE SELECTION OF A WASTE FORM FOR CARBON-14. 1987. 52 p.

1987. 52 87/00/00

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

CONTAINMENT:

Serne, R.J.; Treat, R.L.

priv

Pacific Northwest Lab. WA (USA).

SOLUBILITY CONSTRAINT CONCEPTS APPLIED TO LEACH TEST FORMS.

April 1987. 6 p.; p. 28-31. 194 National Meeting of Chemical Society, Division of Environmental Chemistr

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Washington, DC. American Chemical Society. 1987. 87/04/00

Much current activity is devoted to the attempt to e governing processes that control the leaching of sol forms that are destined for burial in geologic media CONTAINMENT: leaching.

Neretnieks, I. acad

SOME ASPECTS ON THE USE OF IRON CANISTERS FOR HLW. Materials Research Society Symposia Proceedings 50: 85/00/00

CONTAINMENT:

Wilson, C.N. priv/govt Westinghouse Hanford Co. WA (USA). SPENT FUEL CLADDING CONTAINMENT CREDIT TESTS (WASTE PROGRAMS, HIGH-LEVEL WASTE).
Waste Management Conference 1984. Tucson, AZ (USA). 1984. V. 1, p. 569-573. 84/03/00 Test being performed to assess the effectiveness of cladding as a barrier to radionuclide release from s rods stored in a geologic repository are discussed.

Clark, D.E.

CONTAINMENT: geologic disposal.

Pacific Northwest Lab. WA (USA). SRP MATERIALS TESTING INFORMATION AND DATA NEEDS. Proceedings of Salt Repository Project's workshop on Migration. March 1987, p. 19-21

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT An advantage of a salt repository is its dryness, wi fluids available for interactions with emplaced wast The fluids that are present in salt are aggressive t of the waste package components. CONTAINMENT: corrosion, salt.

Knabenschuh, J.L. (Westinghouse Electric Corp., West priv Societe Francaise D'Energie Nucleaire, Paris, (Franc STARTUP OF THE WEST VALLEY HIGH-LEVEL WASTE CONDITIO

VITRIFICATION SYSTEMS.

P. 263-276. RECOD '87. Nuclear Fuel Reprocessing and Management Vol. 1. Paris, France. Societe Francaise Nucleaire. 1987. 492 p.

87/00/00 The West Valley demonstration project, a federally m cleanup project under the direction of the US DOE,

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT in the final stages of installation and testing of : the pretreatment of high-level radioactive waste. CONTAINMENT: glass, monitoring.

Coons, W.; Bergstroem, A.; Gnirk, P.; Gray, M.; Knec Pusch, R.; Steadman, J.; Stillborg, B.; Tokonami, M;

Swedish Nuclear Fuel and Waste Management Co., Stock STATE-OF-THE-ART REPORT ON POTENTIALLY USEFUL MATERI SEALING NUCLEAR WASTE REPOSITORIES. June 1987. 181 p. 87/06/00

Seals, including fracture seals, may be used to limi flow into and away and to limit the releases of radi that may be transported by groundwater movement. CONTAINMENT: groundwater, radionuclide migration.

acad

STATIC LEACHING OF FULLY RADIOACTIVE WASTE GLASS AT PRESENCE OF BENTONITE, GRANITE, AND STAINLESS STEEL

Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 179.

85/09/00

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE

| CONTAINMENT: leaching, corrosion.

McNeil, M.B. (Nuclear Regulatory Commission, Washing Bates, J.K.; Seefeldt, W.B. (eds.). govt

Argonne National Lab. Il (USA). STATISTICAL ISSUES IN PITTING CORROSION OF CARBON ST P. 199-214. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00 A review is given of the state of understanding of t statistical distributions of pit depths and pit popu

carbon steel, with special reference to underground structures, which appear to bear significant similar alloys and conditions expected in basalt and salt hi waste repositories.

CONTAINMENT: corrosion, steel.

govt

STEADY-STATE AND TRANSIENT RADIONUCLIDE TRANSPORT TH PENETRATIONS IN NUCLEAR WASTE CONTAINERS. LBNL Report 21806, July 1986. 41 p. 86/07/00

ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

CONTAINMENT: radionuclide migration.

Beavers, J.A.; Thompson, N.G.; Parkins, R.N.

Battelle Columbus Div. OH (USA); Nuclear Regulatory

Washington, DC (USA).
STRESS-CORROSION CRACKING OF LOW-STRENGTH CARBON STE
CANDIDATE HIGH-LEVEL WASTE REPOSITORY ENVIRONMENTS.
Feb 1987. 83 p.

87/02/00

A survey of the literature was performed to identify stress-corrosion cracking agents for low-strength ca alloy steels in repository environments.

CONTAINMENT: corrosion, steel.

|Barrett, N.T.; Antonini, G.M.; Thornley, F.R.; Greav | Manara, A. (Joint Research Centre, Ispra, Italy) | Bates, J.K.; Seefeldt, W.B. (eds.)

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE

Argonne National Lab. IL (USA).
STRUCTURAL CHANGES AROUND URANIUM AT THE SURFACE OF
CAUSED BY LEACHING.

P. 571-576. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

Structural changes occuring at the surface of leache borosilicate glasses containing 3%WT of uranium have investigated using fluorescence exafs spectroscopy a incidence.

CONTAINMENT: leaching, glass.

Gates, W.E.

priv West Valley Nuclear Services Co. Inc. NY (USA). STS (SUPERNATANT TREATMENT SYSTEM) CONFINEMENT BARRI REVIEW FOR THE WEST VALLEY DEMONSTRATION PROJECT. June 1987. 109 p.

87/06/00

The primary supernatant treatment system confinement have sufficient reserve capacity due to the inherent factors associated with this type of construction, t extreme environmental loading without structural fai leakage of high-level wastes into the environment.

CONTAINMENT:

Philip, J.C.; Christofi, N.; West, J.M. assoc British Geological Survey. (UK). STUDIES ON THE EFFECTS OF SULPHATE-REDUCING BACTERIA CARBON STEEL RELEVANT TO RADIOACTIVE WASTE DISPOSAL 1987. 62 p. 87/00/00 ABSTRACT

KEYWORDS LOCATION REFERENCE disposal. CONTAINMENT: corrosion, chemistry.

AUTHOR

TYPE ORGANIZATION TITLE

Schreiber, H.D.; Kozak, S.J.; Leonhard, P.G.; McManu Schreiber, C.W. (Virginia Military Inst., Lexington. Glass Chemistry) acad

Sulphate reducing bacteria have been used to determ: maximum effect on mild carbon steel of relevance to

SULFUR CHEMISTRY IN A BOROSILICATE MELT, PT. 2. KINE PROPERTIES.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS

Glasech. Ber. January 1988. V.61(1) P. 5-11. 88/01/00

The diffusion of gaseous sulfur compounds under both and reducing conditions has been determined in compo under consideration for nuclear waste immobilization CONTAINMENT: glass.

Gilliam, T.M.; Mcdaniel, E.W.; Dole, L.R.; Friedman, Loflin, J.A.; Mattus, A.J.; Morgan, I.L.; Tallent, O G.A.

govt

Oak Ridge National Lab. TN (USA). SUMMARY REPORT ON THE DEVELOPMENT OF A CEMENT-BASED IMMOBILIZE HANFORD FACILITY WASTE.

September 1987. 168 p. 87/09/00

This report recommends a cement-based grout formula waste in the transportable grout facility. CONTAINMENT: cement.

Nicolosi, S.L.; Kurth, R.E.; Quayle, S.F.; Hess, D.J A.J.

govt

Battelle Columbus Div. OH; Nuclear Regulatory Commis Washington, DC, (USA) SYSTEM PERFORMANCE OF HIGH-LEVEL WASTE PACKAGE COMPO

Sept 1987. 282 p.

87/09/00

This report presents analytical and experimental stu describe the performance of nuclear waste packages a

CONTAINMENT: analytical techniques.

Jantzen, C.M.

SYSTEMS APPROACH TO NUCLEAR WASTE GLASS DEVELOPMENT. Journal of Non-Crystalline Solids 84: 215-225. 86/00/00

CONTAINMENT: glass.

LOCATION REFERENCE

AUTHOR TYPE

| Hayward, P.J.; Tait, J.C.; Devgun, J.S. govt

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS

Atomic Energy of Canada Limited. TECHNOLOGIES FOR THE CONTAINMENT, IMMOBILIZATION AND RADIOACTIVE WASTES.

1987. 32 p. 87/00/00

CONTAINMENT: disposal and storage alternatives.

priv/govt Ontario Hydro. (Canada).
TEST PROGRAM OF THE PROTOTYPE OF THE THIN-WALLED PARTICULATE-PACKED (TWPP) CONTAINER. 1987. 4 V. 87/00/00

CONTAINMENT:

Hall, A.R. (UKAEA Atomic Energy Research Establishme (ed.)

assoc

Commission of the European Communities, Luxembourg. TESTING AND EVALUATION OF SOLIDIFIED HIGH-LEVEL RADI WASTE.

London, UK. Graham and Trotman Ltd. 1987. 354 p. Rad Waste Management Series.

87/00/00

This document is the final report of the 2nd joint f program on the testing and evaluation of the propert potential materials for the immobilization of high-l radioactive wastes.

CONTAINMENT:

Bruecher, H.; Barnet, E.; Kroth, K.; Niephaus, D. (Kernforschungsanlage Juelich G.M.B.H., Germany, F.R.)

Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellschaft E.V., Bonn, Germany, (F.R.).
TESTS ON FINAL STORAGE OF HEAT-PRODUCING MAW AND HTR ELEMENTS IN BOREHOLES IN SALT DEPOSITS. (in German)
P. 437-440. Annual Meeting on Nuclear Technology '87 Proceedings. Session 4: Fuel Cycle and Waste Process 829 p. 87/00/00

CONTAINMENT: thermodynamics.

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

Nuttal, K.; McKay, P., (eds.).
govt
Atomic Energy of Canada Limited.
THE CORROSION PERFORMANCE OF NUCLEAR FUEL WASTE CONTECHNICAL Record TR -340. 130 p.
85/00/00

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE

Heafield, W.; Woodall, A.; Elsden, A.D. (British Nuclearrington, Cheshire, UK)
Post, R.G. (ed.)
govt

THE DESIGN AND CONSTRUCTION OF THE WINDSCALE VITRIF: AND VITRIFIED PRODUCT STORE.
P. 517-522. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, And Arizona Nuclear Engineering Dept. 1987.
87/00/00

The paper desribes the background of high-level wast vitrification development in the UK and its applicat reprocessing operations at Sellafield. CONTAINMENT: glass, reprocessing.

Truss, K.J.; Patterson, D.W. govt

CONTAINMENT: corrosion.

Atomic Energy of Canada Limited. THE DRY STORAGE OF USED FUEL IN CONCRETE CANISTERS I

1987. 9 p. 87/00/00

CONTAINMENT: concrete.

Yamanaka, H.; Yamasita, M.; Wakabayashi, H.; Terai, (Government Industrial Research Institute., Osaka, Jgovt

THE EFFECT OF COMPOSITION DEVIATION ON THE PROPERTIE WASTE GLASSES, (2). LEACH RATE. Osaka Kogyo Gijutsu Shikenjo Kiho. December 1987. V. P.206-211. 87/12/00

ABSTRACT

For nuclear waste glasses, it is important to estima physical and chemical properties due to deviations i composition. Following electrical conductivity in the

KEYWORDS LOCATION REFERENCE paper, chemical durability has been measured for gla which the content of waste oxides, sodium oxide, or oxides was changed. CONTAINMENT: glass, leaching.

AUTHOR TYPE ORGANIZATION

Pathania, R.S.; Cleland, R.D.

Atomic Energy of Canada Limited.
THE EFFECT OF THERMAL TREATMENTS ON STRESS CORROSION TITLE ALLOY-800 IN A CAUSTIC ENVIRONMENT. 7 p. (1985). Reprinted from Corrosion (1985) 41(10): 85/00/00 PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

CONTAINMENT: thermodynamics, corrosion.

AUTHOR TYPE ORGANIZATION

PUBLISH DATE **ABSTRACT**

TITLE

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION govt Battelle Memorial Inst. Columbus, OH. Office of Nucl THE EFFECTS OF STABILIZERS ON THE HEAT TRANSFER CHAR OF A NUCLEAR WASTE CANISTER. Battelle Memorial Inst. Report ONWI-612, July 1986. 86/07/00

CONTAINMENT: monitoring.

Philip, J.C.

govt

Úkaea Harwell Lab. (UK).
THE EFFECTS OF SULPHATE REDUCING BACTERIA ON THE COR MILD STEEL EMBEDDED IN A BENTONITE-GRANITIC GROUNDWA Aug. 1987. 42 p. 87/08/00

Preliminary experiments were set up to investigate h corrosion of forged 0.2 % carbon steel is affected b presence of sulphate reducing bacteria.

CONTAINMENT: corrosion, chemistry.

Smith, H.D.

govt

Sandia National Labs. NM (USA).

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

March 1987. 26 p. 87/03/00 This paper reports the results of an experiment desi detect the influence of copper on zircaloy spent fue degradation in one possible repository environment.

THE INFLUENCE OF COPPER ON ZIRCALOY SPENT FUEL CLADD

DEGRADATION UNDER A POTENTIAL TUFF REPOSITORY CONDIT

CONTAINMENT: corrosion, tuff.

|Newman, R.C. (Manchester Univ. (UK). Inst. of Science

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Technology).

acad

UKAEA Harwell Lab. Materials Development Div.
THE INFLUENCE OF THIOSULPHATE IONS ON THE LOCALIZED STAINLESS STEEL.

October 1987. 29 p.

87/10/00

Since blast furnace slag may be added to concrete f waste containment, information on the corrosion eff thiosulphate on stainless steels such as are likely for waste canisters in contact with such concrete h reviewed and areas requiring further study are iden CONTAINMENT: corrosion.

Marsh, G.P.; Taylor, K.J.; Sooi, Z.

UKAEA Harwell Lab. Materials Development Div.
THE KINETICS OF PITTING CORROSION OF CARBON STEEL.
REPORT TO JUNE 1987.
Febuary 1988. 30 p.
88/02/00

The development of an improved method for analysing data to take account of the difference in area of 1 specimens and full sized high-level nuclear waste c described CONTAINMENT:

Lister, D.H.; Davidson, R.D.; McAlpine, E.

Atomic Energy of Canada Limited.
THE MECHANISM AND KINETICS OF CORROSION PRODUCT RELI STAINLESS STEEL IN LITHIATED HIGH TEMPERATURE WATER 28 p. (1987). Reprinted from Corrosion Science (198 27(2):113-140.

87/00/00

KEYWORDS LOCATION REFERENCE CONTAINMENT: corrosion, thermodynamics, steel.

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

Shakelford, J.F.

Rincon Lopez, J.M. (ed.)

California Univ., Davis, USA; Centro de Investigacio Energeticas, Medioambientales y Technologicas, Madr.

Ceramica y Vidrio, Madrid, (Spain).
THE NATURE OF THE GLASSY STATE. IMPLICATIONS FOR RA WASTE STORAGE.

P. 19-42. Glasses and glass-ceramics for nuclear was management. 1987. 212 p.

87/00/00

Glass is a primary candidate for the storage of rad waste. The glassy state is defined in themes of atom structure, short range order and long range randomne CONTAINMENT: glass.

KEYWORDS LOCATION REFERENCE AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

govt Argonne National Lab. IL (USA).

Bates, J.K.; Gerding, T.J.

THE PERFORMANCE OF ACTINIDE-CONTAINING SRL 165 TYPE UNSATURATED CONDITIONS.

1987. 12 p. 87/00/00

As part of the effort by the NNWSI project to evalua volcanic tuff beds of Yucca Mountain as a repository permanent storage of high-level nuclear waste, the i of actinide-doped 165 type glass with the unsaturate environment has been studied. CONTAINMENT: glass.

Lee, C.F.; Oscarson, D.W.; Cheung, S.C.H. govt

Atomic Energy of Canada Limited. THE PRESERVATION OF A CADAVER BY A CLAY SEALANT: IMP THE DISPOSAL OF NUCLEAR FUEL WASTE.

5 p. 1986. Reprinted from Nuclear and Chemical Waste (1986) 6:65-69.

86/00/00

CONTAINMENT: clay.

|Bates, J.K.; Gerding, T.J.; Fischer, D.F.; Ebert, W.

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE govt Lawrence Livermore National Lab. CA (USA). THE REACTION OF GLASS IN A GAMMA IRRADIATED SATURATE ENVIRNMENT: PART 2, DATA PACKAGE FOR ATM-1C AND ATM-November 1987. 131 p. 87/11/00

A series of experiments have been performed in suppo Nevada Nuclear Waste Storage Investigations project investigate the effects of gamma radiation on ground glass reaction.

CONTAINMENT: glass, tuff, groundwater.

Jensen, D.J.; Radke, C.J. (California Univ., Berkele Chemical Engineering)

THE ROLE OF A BENTONITE-BASED PACKING IN LIMITING ST RADIONUCLIDE RELEASE FROM AN UNDERGROUND HIGH-LEVEL REPOSITORY.

Ann. Nucl. Energy. 1987. V.14(3) P.153-157.

Steady fractional release rates are calculated for a waste canister protected by bentonite-based and alte packing materials in both basalt and tuff repositori CONTAINMENT: basalt, tuff, radionuclide migration.

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS

Jantzen, C.M.; Bibler, N.E. acad

THE ROLE OF GROUNDWATER OXIDATION POTENTIAL AND RAD WASTE GLASS PERFORMANCE IN CRYSTALLINE REPOSITORY EN Materials Research Society Symposia Proceedings 50: Nuclear Waste Management Symposium. Stockholm (Swedings 1), 1985. p. 219.

CONTAINMENT: glass, groundwater, crystalline.

govt

THE TUFF REACTION VESSEL EXPERIMENT. LLNL Report UCRL-53735, June 1986. 39 p. 86/06/00

CONTAINMENT: tuff.

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Jantzen, C.M.; Bickford, D.F.; Karrater, D.G. acad

TIME-TEMPERATURE-TRANSFORMATION KINETICS IN SRL WAST Advances in Ceramics 8: 30-38. 84/00/00

CONTAINMENT: glass.

Abrajano, T.A. Jr.; Bates, J.K. Bates, J.K.; Seefeldt, W.B. (eds.)

Argonne National Lab. IL (USA).
TRANSPORT AND REACTION KINETICS AT THE GLASS: SOLUTI
REGION: RESULTS OF REPOSITORY-ORIENTED LEACHING EXPE
P. 533-546. Scientific Basis for Nuclear Waste Manag
Pittsburgh, PA (USA). Materials Research Society. 19
87/00/00

Repository-orientated leaching experiments involving River Laboratory 165 type glass under a gamma-radiat have been performed by the Nevada Nuclear Waste Stor Investigations Project.

CONTAINMENT: glass, leaching,

McKenzie, J.M.; Self, B.G.; Walder, J.E.

govt |Sandia National Lab. NM (USA). |ULTRASONIC IDENTITY DATA STORAGE AND ARCHIVAL SYSTEM |1987. 7 p. |87/00/00

Ultrasonic seal signature information is being used if an underwater stored spent fuel container has bee

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

compromised and can be used to determine if a nuclea container has been compromised.

CONTAINMENT: analytical techniques.

acad

WASTE CONTAINMENT AND MONITORING SYSTEM FOR THE NIAG STORAGE SITE.
Colorado State University. 8TH Geohydro Waste Mgt. S (USA). Feb. 5-7, 1986. p. 537-546.

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE 86/02/00

CONTAINMENT: monitoring.

Smith, M.J.

govt
Department of Energy, Washington, DC (USA).
WASTE DISPOSAL PACKAGE.

7 Jan 1987; 9 Jun 1985. 5 p.

87/01/07

A waste disposal package including an inner or prima for containing hazardous and/or radioactive wastes.

CONTAINMENT:

|Bunker, B.C. (Scandia National Labs., Albuquerque, N Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA).

WAŠTE GLASS LEACHING: CHEMISTRY AND KINETICS. P. 493-507. Scientific Basis for Nuclear Waste Manag

Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Although much has been learned concerning the kineti mechanisms of glass dissolution, it does not appear accurate predictions can yet be made concerning the kinetics for specific elements from a given glass as of environmental conditions.

CONTAINMENT: glass, leaching, dissolution.

Pederson, L.R.

govt
Pacific Northwest Lab. NM (USA)

WASTE PACKAGE ENVIRONMENTAL STUDIES, FY 1984 ANNUAL 1986. 130 p.

86/00/00

CONTAINMENT: monitoring.

|McDaniel, E.W.; Gilliam, T.M.; Dole, L.R.; West, G.A | govt

ORGANIZATION TITLE

Oak Ridge National Lab. TN (USA).
WELDON SPRING, MISSOURI, RAFFINATE PITS 1, 2, 3, AND PRELIMINARY GROUT DEVELOPMENT SCREENING STUDIES FOR WASTE IMMOBILIZATION.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

April 1987. 28 p. 87/04/00
Results of Oak Ridge National Labs. initial support develop a preliminary grout formula to solidify in sweldon Spring waste are presented. CONTAINMENT:

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION Maynes, Clifford assoc Nuclear Awareness Project (Canada).AR POWER BOOKLET. N.A.P, Oshawa, 1988, 48pp. 88/00/00

An overview on the nuclear fuel chain in Canada, wit reference to Ontario. Considers the fuel chain as a system, of which waste disposal and management are j Companion to The Nuclear Power Show, an audio-visual presentation on the health and environmental issues with nuclear power, energy conservation, and alterna nuclear economics, and the connections with nuclear Suitable for high-school students and the general pu SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: waste managem education.

N.A.P. P.O.Box 2331, Oshawa, Ontario L1H 7V4 NFW 2.2-30-3

Growth Strategies Organization, Mountain West Resear ASSESSMENT OF THE IMPACT OF A NUCLEAR WASTE REPOSITO MOUNTAIN ON THE ECONOMIC DEVELOPMENT POTENTIAL OF LA CLARK COUNTY AND THE SURROUNDING AREA.

Task 8.1.6 Phase 4-A, Yucca Mountain Socio-economic

Mountain West Research, 1989, 12pp. 89/01/00

In order to measure the impact of siting a high-leve repository at Yucca Mountain, a baseline study refle area's competitiveness as a business centre into the is desirable. Several factors point to a likely mea commercial success in the coming years, and some for possible. A repository facility would have several impacts on this business climate, especially with re image of the area, transportation and perceived risk SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

NFW 2.2-30-1

assoc/media Wadebridge Ecological Centre. CHERNOBYL, THE END OF NUCLEAR POWER? The Ecologist, Vol.16, no.4/5, 1986 86/00/00

Special issue of The Ecologist dealing with many asp nuclear power, including nuclear waste, reprocessing effects of radiation, reactor safety, potential for alternatives.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: safety analys Worthyvale Manor, Camelford, Cornwall, PL32 9TT, U.K.

REFERENCE

AUTHOR TYPE |NFW 2.2-30-4

|Devin, Delbert |assoc ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Serious Texans Against Nuclear Dumping (STAND). COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENT FOR S COUNTY.

1985? 5pp. 85/00/00

Details several important factual inaccuracies in DC Environmental Assessment document, relating to agric geography, water resources. Leads to mistrust of DC published information.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: public particular public

STAND, Rt. 2, Box 28, Tulia, Texas 79088

Filby, R.H.; Stohr, J.S.

Hanford Historical Documents Review Committee. WA (U ENVIRONMENTAL AND HEALTH STUDIES OF POTENTIAL IMPACT HANFORD OPERATIONS.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 347-350. 87/00/00

This paper summarizes investigations and historical the Hanford reservation.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: native.

anon

HIGHER REGIONAL COURT CELLE, JUDGEMENT OF DECEMBER 9 (LEGAL TERM OF RADIOACTIVE WASTE).

Neue Jurist. Wochenschr. May 20, 1987. V. 40(21) p.

87/05/20

In its decision of December 9, 1986, the higher regi Celle deals with the legal term of radioactive waste SOCIO-ECONOMIC AND ECOLÓGICAL IMPACTS: waste charact

Gray, S.; Boryczka, M.; Hines, B.

IMPACT ANALYSIS AND COMMUNITY DEVELOPMENT NEEDS AT T WASTE MANAGEMENT '84.

Proceedings of the Symposium on Waste Management, Vo 11-15, 1984. p. 195-198.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE

84/00/00

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

Hendrickson, P.L.; Scott, M.J.; Mullen, M.F.; Nichol govt

Pacific Northwest Lab. WA (USA).

IMPACT OF PROPOSED FINANCIAL ASSURANCE REQUIREMENTS MATERIALS LICENSEES.

Sept. 1987. 135 p.

87/09/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

The NRC is considering a possible rulemaking that wo certain nuclear materials licensees to demonstrate f ability to clean up accidental releases of radioacti materials. The rulemaking would potentially affect a 16,350 NRC and agreement state licensees. Specific t examined in the report include: characteristics of p affected licensees; the availability and cost of var financial assurance mechanisms; the financial impact licensees; the cost of administering a financial assurand, overall benefits and costs.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: licensing, ec

Branch, K.M.; Cluett, C.; Page, T.L. (Battelle Human Research Centers, Seattle, WA); Post, R.G. (ed.).

INTEGRATING ENVIRONMENTAL AND SOCIO-ECONOMIC ASSESSM P.125-130. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

This paper discusses the need for close integration environmental and socio-economic assessment efforts some of the benefits and difficulties of achieving tinformation.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

Ehlers, P.; Pelzer, N. (Ed.). assoc

INTERNATIONAL AND NATIONAL REGULATIONS FOR THE PROTE NORTH AND BALTIC SEAS AGAINST RADIOACTIVE EMMISSIONS Peaceful uses of Nuclear Energy and State Frontiers Europe. Proceedings. Baden-Baden, (FRG). 1987. 394 p 206-226.

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION 87/00/00
Radioactive substances have only a subordinate impor concerning harmful substances in North and Baltic Se aspects, international, are examined.
SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: regulations,

McBrien, S.; Jones, L.

govt

international.

MITRE Corp. VA (USA).
NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS: SOCIOEC IMPACTS OF CONSTRUCTING A HIGH-LEVEL WASTE REPOSITOR MOUNTAIN.

Sandia National Labs Report 84-7201. Dec. 1984. 205

84/12/00 Socioeconomic impacts to Nye and Clark counties asso construction and operation of a high-level radioacti repository at Yucca Mountain are estimated.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Willis, Y.A.; Morris, W.R.

priv |Westinghouse Electric Corp., PA (USA). |NUCLEAR WASTE INFORMATION MADE ACCESSIBLE: A CASE ST

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Ur Arizona Nuclear Engineering Dept. 1987. p. 137-142.

87/00/00
Public acceptance and cooperation for nuclear energy
Westinghouse has responded to this with the establis
Nuclear Waste Management Outreach Program making nuclear to peak the cooperation easily accessible.

information easily accessible.
SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: education, was management.

Brody, Julie

govt

Nuclear Waste Studies Program, Texas Department of A

PANHANDLE RESIDENTS' VIEWS OF HIGH-LEVEL NUCLEAR WAS Office of Natural Resources and Office of Research a Planning, Texas Department of Agriculture, Austin, N 108pp. 85/05/00

Residents of four Texas counties were surveyed regarestation about potential socio-economic effects of

waste repository. The majority strongly oppose consafacility, with health and environmental effects the important factors. There are also strong concerns also social and economic life of the area. A farm surpoint conducted shows wide ranging potential effects on a sespecially marketability of agricultural produce. SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: public particultures Department of Agriculture, Box 12847, Austin, anne

govt
Oak Ridge Associated Universities, Inc. TN (USA).
RADIOACTIVE WASTE MANAGEMENT FELLOWSHIP PROGRAM: SUN
PROGRAM ACTIVITIES FOR CALENDAR YEAR 1986.

1987. 44 p. 87/00/00

This document describes a graduate fellowship prograguide future scientists and engineers toward a caree high-level radioactive waste management.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: social impact

media

ROLE OF OUTSIDE VENDORS EXPANDS IN TWO NUCLEAR-SERVE Power. December 1987. V. 131(12). p. 31-33. 87/12/00

KEYWORDS LOCATION REFERENCE SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Citizen Alert. (USA). SENATE BILL OFFERS NUKE WASTE BRIBE.

Citizen Alert Newsletter, Reno, April, 1987, 1p.

87/04/00

assoc

U.S. Senators recommend annual payments of \$100 mill state which accepts a nuclear waste repository within borders, in exchange for expeditious site characterical waiver of rights to court actions against DOE, waive provisions of National Environmental Protection Act. Incentives point to Nevada as a likely site because relatively poor economic situation.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: policy and additional property and additionaly

Citizen Alert, Box 5391, Reno, Nevada 89513.

lanne

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE

Kasperson, R.E (chairman).

assoc

Panel on Social and Economic Aspects of Radioactive Management, Washington. (USA).
SOCIAL AND ECONOMIC ASPECTS OF RADIOACTIVE WASTE DIS
CONSIDERATIONS FOR INSTITUTIONAL MANAGEMENT.

National Academy Press, 1984.

84/00/00

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

Forsythe, R.

assoc

Mississippi Energy & Transportation Board. MS (USA). SOCIOECONOMIC ISSUES OF HIGH-LEVEL WASTE REPOSITORIE

POLICIES AND PROGRAMS, HIGH-LEVEL WASTE). Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 215-220.

84/03/00

Responses to several papers concerning the socioecon associated with high-level radioactive waste disposa compiled. The importance of developing a viable publ interaction process in the construction and operatio

repositories is underscored. SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

Moore, R.C. (Wyoming Industrial Siting Administratio WY)

Post, R.G. (ed.)

STRATEGIES FOR SUCCESSFUL MITIGATION OF SOCIO-ECONOM P.101-108. Waste Management '87: Waste Isolation in technical programs, and public education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

ABSTRACT

The successful mitigation of socio-economic impacts careful planning for project inception through projectmonletion. Project location and the schedule for v construction activities can have significant effect Depending on the proximity of a proposed site to di communities, impacts can be radically different give housing and transportation plans. SOCIO-ÉCONOMIC AND ECOLOGICAL IMPACTS: social impac

KEYWORDS LOCATION REFERENCE

AUTHOR

|Keith, Gary

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE

govt Nuclear Waste Studies Program, Texas Department of 1

THE ARROGANCE OF POWER, OR WHEN THE LEAD STARTS TO I IMPACTS AND CONSEQUENCES OF NUCLEAR WASTE REPOSITORY T.D.A. Austin, May, 1987, 23pp.

87/05/00

Real and perceived risks to natural resources (land have the effect of "quarantining" the resources of a natural resource issues are intimately bound up with economic issues. The "representative democracy" are public participation in decision-making is simply not for the nuclear waste disposal issue. SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: public partic

decision making. T.D.A. P.O.Box 12847, Austin, Texas 78711

NFW 2.2-30-2

govt/assoc International Atomic Energy Agency. Vienna (Austria) THE RADIOLOGICAL ACCIDENT IN GOIANIA. Report STI/PUB/815, IAEA, Vienna. 88/00/00

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

govt Texas Department of Agriculture. (USA). THE TEXAS DEPARTMENT OF AGRICULTURE AND THE ISSUE OF HIGH-LEVEL NUCLEAR WASTE DUMP. T.D.A., Austin,

An outline of the involvement of the Texas Departmen Agriculture in the nuclear waste disposal issue since Lists TDA's criticisms of DOE's Draft Environmental of the Texas sites, which would be generally applica waste site assessment program.

SOCIO-ECONOMIC AND ECOLOGÍCAL IMPACTS:

Texas Department of Agriculture, P.O.Box 12847, Aust 78711

NFW 2.2-30-5

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

Brody, Julie; Fleischmann, Judy

govt

Nuclear Waste Studies Program, Texas Department of A (USA).

ÈFFECTS OF A HIGH-LEVEL NUCLEAR WASTE REPOSITORY ON COMMUNITIES: A SURVEY OF PANHANDLE RESIDENTS.

TDA, Austin, February, 1987

87/02/00

Third in a series of surveys of residents in the are a potential high-level waste repository site in Texa that those opposed to an eventual repository are als site characterization, believing that characterizati to the door to an eventual repository. Most people expect negative social and economic impacts, negative environmental impacts, there was great uncertainty a on employment. Urban and rural residents expressed kinds of concerns.

SOCIAL IMPACTS:

TDA, P.O.Box 12847, Austin, Texas 78711

NFW 2.2-31-4

Petterson, J.S.

priv/govt

Impact Assessment, Inc. CA (USA).; Nuclear Waste Pro NV (USA).

GOINIA ÍNCIDENT CASE STUDY.

June 1988. 42 p.

88/06/00

This report necessarily begins with a brief summary describing the Goiania, Brazil, incident; followed b description of the objectives of this follow-up stud description of the specific plan of work that was un and the results of the study.

SOCIAL IMPACTS:

NFW 2.2-31-2

Robbins, Walter. media

HEWERS OF WOOD, STORERS OF POISON: IS U.S. NUCLEAR W FOR CANADA?

This Magazine (October 1987) 21(5):4-5.

87/10/00

SOCIAL IMPACTS:

Walker, D.E.Jr. (Dept. of Anthropology, Univ. of Col Boulder, CO)

Post, R.G. (ed.)

acad

NATIVE AMERICANS AND CULTURAL IMPACT ANALYSIS: THE P NUCLEAR WASTE REPOSITORY AT HANFORD.

TYPE ORGANIZATION TITLE PUBLISH

DATE

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION . TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

P. 123-124. Waste Management '87: Waste Isolation i Technical Programs, and Public Education. Tucson, A of Arizona Nuclear Engineering Dept. 1987. 87/00/00

Beneath a surface patterning of legal, political, e other formal structures, native american reservation tribes posses many culturally distinctive values an life. Their primary objective is survival, and soci cultural impact assessment theories and methods mus

this objective. SOCIAL IMPACTS: native.

Cummings, Ronald G. (University of New Mexico). acad

Nuclear Waste Project Office. State of Nevada Agenc Projects. (USA).
NEW MEXICO WASTE ISOLATION PILOT PROJECT (WIPP): AN

OVERVIEW.

NWPO-SE-013-88, Carson City, June 1988, 46pp. 88/06/00

Reviews technical, transportation and general issue relating to public confidence in DOE) which have ar the siting and construction process for WIPP (the frepository for transuranic military wastes). Some issues have resulted in conflicts and may be used a lessons for future waste disposal scenarios, as well

suggesting possible mitigation methods. SOCIAL IMPACTS: geologic disposal, transport. Capitol Complex, Carson City, Nevada 89710 NFW 2.2-31-1

Foster, D. govt

Atomic Energy of Canada Limited.

NUCLEAR FUEL WASTE MANAGEMENT: A PRELIMINARY EVALUATION OF THE PROPERTY OF THE SOCIAL ISSUES.

Technical Report TR-332. 20 p.

This report identifies and explores a number of soci that arise in connection with nuclear fuel waste dis

SOCIAL IMPACTS: waste management.

NFW 2.2-31-3

|Strassburg, W.

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION govt Deutsche Gesellschaft fuer Wiederaufarbeitung von

Kernbrennstoffen M.B.H. (FRG). NUCLEAR WASTE DISPOSAL. STATE OF THE DEBATE IN THE I

REPUBLIC OF GERMANY. Energiewirtsch. Tagesfragen. May 1987. V. 37(5) p. 3

87/05/00 Technical problems are, and have been, hardly an iss debate about nuclear waste disposal. The predomination increasingly important issue are general questions of the problems are general questions of the problems. regarding the peaceful use of nuclear energy in the SOCIAL IMPACTS: REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE Blowers, A.; Lowery, D.

The Open University. (UK).
OUT OF SIGHT, OUT OF MIND: THE POLITICS OF NUCLEAR W
UNITED KINGDOM.

Nuclear Power in Crisis: Politics and Planning for t State. 1987. p. 129-163.

87/00/00

This paper examines the proposition that waste dispoin the UK is a political rather than a 'rational' or

'scientific' process.

SOCIAL IMPACTS: waste management.

Robbins, Walter. media

PEOPLE AND NUCLEAR WASTE (IN MANITOBA). NeWest Review (1988) 13(10):4-5. 88/00/00

SOCIAL IMPACTS: public participation.

acad

TECHNOCRACY AND TRUST: NUCLEAR WASTE CONTROVERSY. Journal of Professional Activities-ASCE. January 198 p. 27-40. 88/01/00

SOCIAL IMPACTS: public participation.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Fleishman, J.; Brody, J.; Galavotti, C. (Texs Dept. Agriculture, Austin, TX) Post, R.G. (ed.)

govt

THE IMPORTANCE OF COUNTING COWS: SOCIAL AND ECONOMIC HIGH-LEVEL NUCLEAR WASTE REPOSITORY IN TEXAS. P. 95-100. Waste Management '87: Waste Isolation in

Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

Impacts assessments that rely on existing records an extrapolation from broad geographic areas provide in information about social and economic conditions imp siting a high-level nuclear waste repository.

SOCIAL IMPACTS: economics, siting.

Curd, P.J.; Strange, R.C. priv

ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Nuclear Industry Radioactive Waste Executive, (UK). THE PUBLIC NEEDS TO KNOW. Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Ur Arizona Nuclear Engineering Dept. 1987. p. 45-50. 87/00/00

The conflict between a general national interest and local concern presents a formidable and perhaps inso public relations problem. SOCIAL IMPACTS: public participation.

Curd, P.; Monckton, N. (Nuclear Industry Radioactive Executive, Harwell, UK)

THE REAL PROBLEM: PUBLIC ACCEPTIBILITY. Nucl. Eng. March-April 1988. V.29(2) P. 58-63. 88/03-04/00

The paper concerns the problem of public acceptibili radioactive waste disposal in the United Kingdom. SOCIAL IMPACTS: public participation.

Colglazier, E.W.; Dungan, D.L.; Reaven, S.J. acad

The University of Tennessee. TN (USA). VALUE ISSUES AND STAKEHOLDERS' VIEWS IN RADIOACTIVE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE MANAGEMENT.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 185-196. 87/00/00

The authors review a study in progress that is exami played by ethical and value issues in high-level and radioactive waste management. For each policy issue to separate its 'value concerns' into three categori procedural distributional, and evidential asects. SOCIAL IMPACTS: ethics.

assoc

UK NIREX LTD COMMUNITY BENEFIT PROGRAMME-GENERAL PRINCIPLES. Pieda, Planning, Economic and Development Consultant

A study which develops a proactive approach to bring benefits to a British community in the vicinity of a facility.

SOCIAL IMPACTS: legislation

NFW 2.2-31-5

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION .

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

A STUDY IN NUCLEAR DECOMMISSIONING. Civil Engineering ASCE. February 1988. V. 58(2). p. 88/02/00

VOLUME REDUCTION: waste management.

Kochen, R.L.; Thomas, R.L. priv

Rockwell International Corp. CO (USA).
ACTINIDE REMOVAL FROM AQUEOUS SOLUTION WITH ACTIVATE

10 Aug. 1987. 14 p. 87/08/10
Describes an actinide aqueous waste treatment proces activated magnetite developed at Rocky Flats, CO. The effectiveness of various magnetites in lowering acticoncentrations in aqueous solution is described. VOLUME REDUCTION:

Segal, D.L.; Willis, H.; Woodhead, J. (UKAEA Atomic Research Establishment, Harwell. Engineering Div.); (UKAEA Atomic Energy Research Establishment, Harwell Div.) assoc

UKAEA Atomic Energy Research Establishment, Harwell. Sciences Div.; Depertment of the Environment, London APPLICATION OF GEL PROCESSES IN THE TREATMENT OF ACTINIDE-CONTAINING LIQUID WASTES.

April 1987. 15 p. 87/04/00

Aqueous sol-gel materials including zirconia and alu together with glass-ionomer cements have been used t inactive mixed al/fe/cr-hydroxide flocs representati produced during fuel reprocessing. VOLUME REDUCTION: reprocessing.

Lupparelli, V.; Nobili, A. govt

Īnternational Atomic Energy Agency. Vienna (Austria) APPLICATION OF THE GEL SUPPORTED PRECIPITATION PROCE NUCLEAR FIELD. CONVERSION OF U-PU SOLUTIONS FOR (U,P FABRICATION AND IMMOBILIZATION OF HIGH-LEVEL WASTE I CERAMICS. Proceedings of an International Symposium on the Bac

Nuclear Fuel Cycle: Strategies and Options. Jointly the International Atomic Energy Agency and the Nucle Agency of the OECD and held in Vienna, 11-15 May 198 87/00/00

ABSTRACT KEYWORDS LOCATION REFERENCE

VOLUME REDUCTION: waste handling and emplacement, i

Environmental Defence Fund Report. June 1986. 175 p

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

VOLUME REDUCTION:

|Hoegler, J.M.

APPROACHES TO SOURCE REDUCTION.

assoc

86/06/00

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

govt Oak Ridge National Lab. TN (USA). BENCH-SCALE MAGNETIC SEPARATION OF DEPARTMENT OF EN July 1987. 44 p.

KEYWORDS LOCATION REFERENCE Criteria were developed for selection of candidate testing magnetic separation of uranium and/or other materials. VOLUME REDUCTION:

AUTHOR

TYPE

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Mogg, C.S.; Heafield, W. (British Nuclear Fuels PLC, Warrington, Cheshire, UK); Post, R.G. (ed.).

BNFL'S OBJECTIVES AND ACHIEVEMENTS IN THE REDUCTION RADIOACTIVE DISCHARGES FROM REPROCESSING PLANTS. P. 613-622. Waste Management '87: Waste Isolation in Technical Programs and Public Education. Tucson, AZ. of Arizona Nuclear Engineering Dept. 1987. 87/00/00

This paper describes the regulatory framework within operates, the reduction of Sellafield discharges and principal processes by which this reduction is being VOLUME REDUCTION: reprocessing.

| Passant, F.H.; Haigh, C.P.; Willis, A.S.D. (Central Generating Board, Berkeley, UK. Berkeley Nuclear Lab

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

CEGB DISSOLVES MAGNOX FUEL ELEMENT DEBRIS AT DUNGENE Nucl. Eng. Int. Febuary 1988. V. 33(403) P. 48-49. 88/02/00

The CEGB's intensive development programme for management element debris currently stored at Britain's mastations has produced a treatment method which dissomagnesium constituent in carbonic acid, significantly the results of radioactive wasta left for subsequent the volume of radioactive waste left for subsequent and disposal. VOLUME REDUCTION:

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

priv/govt Oak Ridge National Lab. TN (USA).

Burch, W.D.; Stradley, J.G.; Lerch, R.E.

CONCEPT FOR A SMALL, COLOCATED FUEL CYCLE FACILITY F BREEDER FUELS.

1987. 11 p. 87/00/00

In examination of innovative liquid-metal reactor sy over the past three years, Oak Ridge and the Westing Hanford Co., collaborated on studies of mixed oxide options. A principal effort was an advanced concept integrated fuel cycle colocated with a 1300-MW react VOLUME REDUCTION: waste management.

Barrett, J.L.

priv

P.E.C. Engineering, Osny, (France).
CONDITIONING PROCESS BY SOLIDIFICATION OF DANGEROUS NUCLEAR WASTES.

30 Jan. 1987. 8 p.

87/01/30 A hydraulic binder and additives are introduced into equipped with a mixer, wastes are introduced, slowly solidified in the container. A device for application

process is developed. VOLUME REDUCTION:

Bursill, L.A.

acad

University of Melbourne. (Australia).

CONSEQUENCES OF THE RADIATION-INDUCED TRANSFORMATION

SYNTHETIC HOLLANDITE-TYPE PHASES.

Journal of Solid State Chemistry. Aug. 1987. V. 69(2)

DATE **ABSTRACT**

87/08/00 Criteria for the safe immobilization of 137CS in syn Hollandite-type phases are reviewed with respect to crystallographic, and physical stability, including radiation damage. Synthetic preparations so far poss properties which offer some optimism that a relative waste product is possible following changes in charg radius of the radioactive ions, but this is by no me established.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Looper, M.G.; Charlesworth, D.L.

Savannah River Lab. SC (USA).
DEMONSTRATION OF REMOTELY OPERATED TRU WASTE SIZE RE MATERIAL HANDLING EQUIPMENT.

1988. 10 P. 88/00/00

VOLUME REDUCTION:

The Savannah River Lab is developing remote size red material handling equipment to prepare 238pu contami KEYWORDS LOCATION REFERENCE Mexico. VOLUME REDUCTION: waste handling and emplacement.

for permanent disposal at the waste isolation pilot

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION Kanno, T.; Mimura, H; Akiba, K.; Suzuki, S.; Mitsuga Hara, M.

acad

Tohoki University, (Japan); Research Institute for and other Metals. DENITRATION OF HIGH-LEVEL LIQUID WASTE AND REMOVAL (

STRONIUM WITH ZEOLITES.

Chemical Aspects of Down Stream for Thorium Fuel Cyc Japan. Atomic Energy Society of Japan. March 1987. 2

91-100. 87/03/00

The denitration of high-level liquid waste and the s removal of Cs and Sr have been studied by the use of The effective denitration was performed by the addit formic acid in the simulated HLLW containing platinu elements.

VOLUME REDUCTION: waste characterization.

Inque, Y.; Tochiyama, O.; Tanaka, K.; Suzuki S.; Mit T.; Toshiaki, H.; Hara, M.

acad

Tohoki University, (Japan); Research Institute for I

TITLE

PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION and other Metals.

DEPOSITION OF PROTACTINIUM IN MOLTEN LIF-NAF-KF EUTE ALKALINE EARTH OXIDES.

Chemical Aspects of Down Stream for Thorium Fuel Cyc Japan. Atomic Energy Society of Japan. March 1987. 2 243-255.

87/03/00

With the aim to establish a method for reprocessing nuclear fuels, the liquid-solid distribution of 233P molten LIF-NAF-KF eutectic and either BEO, MGO, or C studied at 600 Deg Cel, under various conditions. VOLUME REDUCTION:

Williams, S.; Charlesworth, D.L.

Savannah River Lab. SC (USA).

DEVELOPMENT OF A PLUTONIUM-239 RECOVERY INCINERATOR. 1988. 10 p.

88/00/00

A plutonium-239 recovery incinerator is being develo Savannah River plant to reduce the volume of solid g waste and to allow recovery of some waste materials. VOLUME REDUCTION:

Bickford, D.F.; Jantzen, C.M. acad

TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

DEVITRIFICATION BEHAVIOUR OF SRL DEFENCE WASTE GLASS Materials Research Society Symposia Proceedings 26: 84/00/00

VOLUME REDUCTION: glass.

Bickford, D.F.; Jantzen, C.M. acad

DEVITRIFICATION OF DEFENCE NUCLEAR WASTE GLASSES: RO INSOLUBLES.
Journal of Non-Crystalline Solids 84: 299-307.
86/00/00

VOLUME REDUCTION: glass.

|Bruecher, H.; Merz, E.

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION Bundesministerium fuer Umwelt, Naturschultz und Reaktorsicherheit, Bonn, Germany, F.R.; Kernforschun Juelich G.M.B.H., Germany, F.R. Inst. fuer Chemishe der Nuklearen Entsorgung. DISPOSAL STRATEGIES FOR SPECIAL WASTES. (in German)

1987. 147 p. Schriftenreihe Reaktorsicherheit und Strahlenschultz.

87/00/00

Special attention is being paid to the treatment and the volatile radionuclides tritium, carbon-14, krypt iodine-129 arising from reprocessing of spent nuclea VOLUME REDUCTION: reprocessing.

Broek, W.M.; Bruining, J.

acad
Technische University Delft. (Netherlands).
DISSOLUTION OF RADIOACTIVE WASTE MIXED WITH GLASS IN
12-Procestechnologie. Jan. 1987. No. 1. p. 29-32.

87/01/00 A barrier regarding the disposal of radioactive wast described. The vitrification of nuclear fission wast borosilicate glass is the method outlined.

VOLUME REDUCTION: glass.

acad

DISSOLUTION OF USED CANDU FUEL AT VARIOUS TEMPERATUR CONDITIONS.
Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 317. 85/09/00

VOLUME REDUCTION: dissolution.

REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT **KEYWORDS**

LOCATION

Matsuura, H.; Tomura, H.

priv

Nippon Atomic Industry Group Co., Ltd., (Japan).
DRYING PROCESS OF BWR CONCENTRATED WASTES IN WIPED I

EVAPORATOR.

NAIG (Nippon At. Ind. Group) Annual Review. 1987. p. 87/00/00
Published in summary form only.

VOLUME REDUCTION:

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

priv/govt

Ontario Hydro. (Canada).

DRYING, PELLETIZING, SINTERING AND LEACHING OF SOL-AMINE HIGH-LEVEL LIQUID WASTE.

1986. 60 P. 86/00/00

VOLUME REDUCTION:

Weishaupt.

govt

Kernforschungszentrum Karlsruhe (FRG).

ELECTROLYSIS PROCESSES IN REPROCESSING: FROM LABORAT

TECHNICAL USE IN WACKERDORF REPROCESSING PLANT.

Lectures of the 6th Status Report on the Project for and Waste Treatment, March 13-14, 1986. 545 p. P. 98

86/03/00

The use of electrolysis apparatus in the extraction the Wackersdorf reprocessing plant can be regarded a success due to the practically fault-free behaviour plutonium cycle. The results of tests performed are

VOLUME REDUCTION:

Burill, L.A.; Smith, D.J.

University of Melbourne. (Australia). ELECTRON IRRADIATION EFFECTS IN (CS, BA)-HOLLANDITES. Journal of Solid State Chemistry. Aug. 1987. V. 69(2)

87/08/00 High resolution electron microscopy examination of m

(CS, BA) -Hollandites reveals evidence for significant order in the distribution of cation vacancies in the incompletely occupied tunnels. It is evident that Ho are structurally, chemically, and mechanically unstaintense electron irradiation.

VOLUME REDUCTION:

Vance, J.N. govt

ORGANIZATION TITLE

Electric Power Research Institute. CA (USA). ENGINEERING EVALUATION OF SELECTIVE ION-EXCHANGE RAD WASTE PROCESSING AT SUSQUEHANNA NUCLEAR POWER PLANT:

PUBLISH DATE ABSTRACT REPORT. Jan. 1989. 38 p. 89/01/00

This final report describes the work performed of an feasibility evaluation of the use and benefits of a ion exchange treatment process in the Susquehanna ra system. The evaluation addressed operability and pro capability concerns, radiological impacts of operati radwaste discharge mode, required hardware modificat radwaste and plant make-up systems. VOLUME REDUCTION: engineering.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Camilio, R.L.; Goncalves, M.A.; Carvalho, E.I. de; N A.K.; Araujo, B.F. de (Inst. de esquisas Energeticas Nucleares, Sao Paulo, Brazil)

Associacao Brasileira de Energia Nuclear, Rio de Jan (Brazil).

EVALUATION AND PERFORMANCE OF MIXER-SETTLERS USED FO

EXTRACTION (in Portugese)
P. 325-336. Proceedings of the 2. General Congress o Energy- V.2. 1988. 498 p.

88/00/00

This paper deals with four conceptions of mixer-sett actinide purification and recovery. By means of the concentration profiles in the organic and aqueous ph evaluation of each mixer-settler was made. VOLUME REDUCTION:

Chipman, N.A.; Carleson, T.E.

Westinghouse Idaho Nuclear Co, Inc., (USA). EVALUATION OF A MODIFIED ZIRFLEX PROCESS TO MINIMIZE WASTE GENERATION AT THE IDAHO CHEMICAL PROCESSING PL June 1987. 61 p. 87/06/00

The report deals with extensive laboratory experimen conducted to develop a dissolvent suitable for zirca fuels having a surface oxide coating. VOLUME REDUCTION:

Shurte, E.A.; Rankin, W.N. govt/acad Vanderbilt Univ., Nashville, TN; Savannah River Lab. EVALUATION OF COMMERCIALLY AVAILABLE DECONTAMINATION 1988. 16 p.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

88/00/00

The effectiveness of commercially available decontam solutions was compared with the effectiveness of 10% in controlled laboratory tests.

VOLUME REDUCTION:

Kochen, R.L.; Navratil, J.D. (Rockwell International Golden, CO).

FERRITE TREATMENT OF ACTINIDE AQUEOUS WASTE. Lathanide Actin. Res. 1987. V. 2(1) P. 9-22.87/00/00

A plutonium and americium waste treatment process us has been developed at Rocky Flats. VOLUME REDUCTION: reprocessing.

govt

FIXATION OF WASTE MATERIALS IN GROUT, PART I: EMPIRI CORRELATIONS OF FORMULATION DATA.

ORNL Report TM-9680/PI. March 1986. 45 p.
86/03/00

VOLUME REDUCTION:

Fritsch, T.; Henrich, E.; Roemer, J. govt

Kernforschungszentrum Karlsruhe (FRG). FIXING AND STORAGE OF FISSION KRYPTON IN METALS. Lectures of the 6th Status Report on the Project for and Waste Treatment, March 13-14, 1986. 545 p. P.257 86/03/00

The fixing of krypton in ion atomizer pumps is the o conditioning process so far, which manages without h pressure, high temperature, and without the accumula unfixed krypton in all stages and therefore pays speattention to safety.

VOLUME REDUCTION: safety analysis.

Pacovsky, V.

TITLE PUBLISH DATE ABSTRACT

FURNACE FOR RADIOACTIVE WASTE VITRIFICATION. 1 July 1987; 6 March 1984. 9 p. 87/07/01

The design is presented of a furnace for the continu vitrification of radioactive waste by medium frequen

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

induction heating. VOLUME REDUCTION:

Lanza, F.; Ronsecco, C.

Commission of European Communities, Luxembourg.

GLASS LEACHING IN WET POROUS MEDIA.

European Applied Research Reports. 1984. V. 6(1-2).

84/00/00

Leaching tests of a borosilicate glass containing si level radioactive waste in different wet porous medi performed and the results are presented in this pape VOLUME REDUCTION: glass.

Strauss, S.D.

HOW UTILITIES RESPOND TO RADWASTE NEEDS. Power. August 1987. V. 131(8) P. 13-16.

87/08/00

Slow progress is being made toward regionalization o disposal, some states working toward regional compac others choose to go it alone. More promising is the radwaste volumes discharged from nuclear stations. VOLUME REDUCTION:

Inque, Y.; Tochiyama, O.; Tanaka, K.; Suzuki S.; Mit T.; Toshiaki, H.; Hara, M.

acad

Tohoki University, (Japan); Research Institute for I

and other Metals.

HYDROUS METAL-OXIDE ION-EXCHANGERS FOR THE PROCESSIN

RADIOACTIVE LIQUID WASTES.

Chemical Aspects of Down Stream for Thorium Fuel Cyc Japan. Atomic Energy Society of Japan. March 1987. 2

101-133.

87/03/00

Fundamental studies were made of synthetic hydrous m such as hydrous titanium oxide, hydrous tin oxide, h zirconium oxide and hydrous niobium oxide, with a vi elucidating the applicability of the materials for t

processing of radioactive liquid wastes. VOLUME REDUCTION:

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE

Yamasaki, N. acad

Atomic Energy Society of Japan.
IMMOBILIZATION OF HIGH-LEVEL RADIOACTIVE WASTE BY HY

HOT-PRESSING METHOD. Chemical Aspects of Down Stream for Thorium Fuel Cyc Japan. Atomic Energy Society of Japan. March 1987. 2

135-162. 87/03/00 ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

Simulated high-level radioactive waste was solidifie silica matrix containing low-quartz and amorphous alumisnosilicate by a hydrothermal hot pressing meth optimum conditions to produce a waste form with high strength and low leachability were determined. VOLUME REDUCTION: analytical techniques.

Martin, H.D.

govt

Savannah River Lab. SC (USA).

IN-TANK PRECIPITATION PROCESS FOR DECONTAMINATION OF SOLUBLE RADIOACTIVE WASTE (WASTE POLICIES AND PROGRA HIGH-LEVEL WASTE).

Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 291-295.

84/03/00

A precipitation and adsorption process was devised t cesium, strontium and plutonium from water soluble, radioactive waste.

VOLUME REDUCTION:

Cruickshank, A. acad

INDIA GETS SET AT TARAPUR (VITRIFICATION PLANT). Nuclear Energy Institute. Aug. 1987. V. 32(397). p. 87/08/00

A vitrification plant has been built and commissione to immobilize high-level radioactive waste arising f reprocessing plant. The plant employs a semi-continu pot-glass process, involving calcination followed by the processing vessel and subsequent casting of the

storage container. VOLUME REDUCTION:

Matsuda, Masami; Funabashi, Kiyomi; Yusa, Hideo (Hit | Ibaraki (Japan). Energy Research Lab.); Kikuchi, Mak | priv

JNSTA.

INFLUENCE OF FUNCTIONAL SULFONIC ACID GROUP ON PYROL CHARACTERISTICS FOR CATION EXCHANGE RESIN.

J. Nucl. Sci. Technol. (Tokyo). (Feb 1987) 24(2):124 87/02/00

Pyrolysis of spent ion exchange resins is used to re radioactive waste volume and to make the final waste stable.

VOLUME REDUCTION:

Oma, K.H.; Ross, W.A.; Smith, W.L.; Adams, J.R.

Priv
Pacific Northwest Lab. WA (USA); Mine Safety Applian
Evans City, PA (USA).

Evans City, PA (USA). INNOVATIVE HEPA (HIGH-EFFICIENCY PARTICULATE AIR) FI PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

TO REDUCE WASTE GENERATION AND SIMPLIFY WASTE TREATM Jan 1987. 10 p.

87/01/00

This study was undertaken to develop and evaluate al materials and innovative designs for HEPA filters, m more compatible with volume reduction technology. VOLUME REDUCTION:

acad

INVESTIGATION OF FOAMING IN LIQUID-FED MELTING OF SI NUCLEAR WASTE GLASS. American Ceramic Society Journal. May 1986. V. 69(5) 86/05/00

VOLUME REDUCTION: engineering.

acad

INVESTIGATION OF LEAD-IRON-PHOSPHATE GLASS FOR SRP W DOE Report DP-1729. October 1986. 66 p. 86/10/00

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

KEYWORDS LOCATION REFERENCE

ABSTRACT

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE VOLUME REDUCTION: glass.

Resnikoff, Marvin

assoc

Radioactive Waste Campaign

IS REPROCESSING A RADIOACTIVE WASTE MANAGEMENT SOLUT New York, 23pp.

Refutes the claim that reprocessing facilitates wast and disposal. Shows that volumes of waste increase, and heat output levels are roughly comparable to the no-reprocessing option.

VOLUME REDUCTION: economics, other alternatives.

RWC, 625 Broadway, New York, N.Y.10012

anne

Kim, W. acad

Florida State University, FL (USA).
KINETIC STUDIES OF NP(VI) REDUCTION REACTIONS WITH K TROPOLONE.

1987. 121 p.

87/00/00

To study the problems of potential migration of radi from a nuclear waste repository, the NP(VI) reduction with kojic acid and with tropolone were investigated level concentration of NP(VI).

VOLUME REDUCTION:

AUTHOR

TYPE ORGANIZATION TITLE **PUBLISH**

DATE ABSTRACT

KEYWORDS LOCATION Schuelke, D.; Kniazewycz, B.G.; Markind, J.; Brossar Choi, R.C. (Northern States Power Co., Prairie Islan Generating Plant, Easte, Welch, MN

Post, R.G. (ed.)

priv

KLM'S BORIC ACID RECLAMATION SYSTEM (BARS). AN UPDAT P. 123-126. Waste Management '87: Waste Isolation in Technical Programs and Public Education. Tucson, AZ. Arizona Nuclear Engineering Dept. 1987.

87/00/00

KLM Technologies has implemented its Dept. of Energy Small Business Innovative Research (SBIR) demonstrat for a radioactive boric acid reclamation system. Pre performance indicates enhanced treatment by the BARS over state of the art process method for selective r silica and other impurities from borated water matri VOLUME REDUCTION:

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

Hoegler, J.M. govt

Oak Ridge National Lab. TN (USA).

MAGNETIC SEPARATION OF URANIUM FROM MAGNESIUM FLUORI 1987. 10 p.

87/00/00

The separation of physical particles that are compri of uranium from those that are primarily magnesium b gradient are reviewed.

VOLUME REDUCTION:

Blinn, K. (Kraftwerk Union Aktiegesellschaft, Offenb Germany, F.R.)
Post, R.G. (ed.)

MANAGEMENT OF LIQUID AND SOLID RADIOACTIVE WASTE FRO POWER PLANTS IN THE FEDERAL REPUBLIC OF GERMANY. P. 9-12. Waste Management '87: Waste Isolation in th Technical Programs and Public Education. Tucson, AZ.

Arizona Nuclear Engineering Dept. 1987. 87/00/00

For treatment of liquid waste, the main process meth German nuclear power plants are evaporation and mech filtration. An improved method, instead of a mechani is the use of centrifuges. The centrifuge system off the same decontamination factor but generates 10 tim waste.

VOLUME REDUCTION:

Systec Systemplanung und Industrieberatung G.M.B.H., (Germany, F.R.)

MATERIALS RECOVERY, MATERIALS UTILIZATION AND RELIEF

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE REPOSITORIES. STATUS REPORT AS OF NOVEMBER 30, 1986 March 1987. 245 p.

87/03/00

The report is a documentation of a study into the pr requirements of the recovery of radioisotopes and ot materials from hlw a nuclear waste reprocessing plan possible utilization.

VOLUME REDUCTION: reprocessing.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE Furrer, J.; Krissel, R.; Liebrecht, H.; Linek, A.; H. Nemes. B.

govt

Kernforschungszentrum Karlsruhe (FRG).
MEASUREMENTS OF AEROSOL DEVELOPMENTS WHEN MIXING AND
SOLUTIONS IN REPROCESSING PLANTS.

Lectures of the 6th Status Report on the Project for and Waste Treatment, March 13-14, 1986. 545 p. P. 23

86/03/00

Aerosol measurements were taken at the place of originactive experimental plant with the aim of providin reliable pre-calculation for planning and constructing reprocessing plant.

VOLUME REDUCTION: design.

Marriott, R.; Henyey, F.S.; Hochstim, A.R.

METHOD FOR NET DECREASES OF HAZARDOUS RADIOACTIVE NU MATERIALS. (THERMAL NEUTRON IRRADIATION OF LONG-LIVE RADIONUCLIDES TO PRODUCE STABLE NUCLIDES AND SHORT-L NUCLIDES).

26 January 1988. VP.

88/01/26

A method of decreasing the amount of relatively long fission products in radioactive waste materials in e that due to their natural radioactive decay, by prod relatively short-lived radioactive nuclides and stab from the relatively long lived fission products, is VOLUME REDUCTION:

Colarusso, A.P.

govt
Los Alamos National Lab. NM (USA).
MOBILE NON-DESTRUCTIVE ASSAY SYSTEM.

Nucl. Mater. Manage. July 1987. V. 16 p. 375-379.

87/07/00 A mobile system for non-destructive assay developed Alamos National Lab. provides accurate and sensitive measurements for transuranic isotopes contained n 20 of miscellaneous nuclear wastes. These waste drums a discussed, especially those comparing passive and ac measurements with independent segmented gamma scan a VOLUME REDUCTION: TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

govt
Atomic Energy of Canada Ltd.
MULTICOMPONENT LEACH TESTS IN STANDARD CANADIAN SHIE
SOLUTION ON GLASSES CONTAINING SIMULATED NUCLEAR WAS

Mater. Res. Soc. Symp. Proc. 1984. V. 26 p. 191-200. 84/00/00

Leaching experiments on borosilicate glass frit and nuclear waste glasses were performed as a preliminar leaching experiments on glasses incorporating radioa VOLUME REDUCTION: glass, leaching.

| Henderson, G.S.; Powell, B.M.; Sunder, S.; Vance, E. acad/assoc | York University, (Canada); Atomic Energy of Canada L | NEUTRON AND RAMAN SCATTERING FROM NA20-AL203-

GLASSES.
Phys. Chem. Glasses. Oct. 1987. V. 28(5) p. 210-213.
87/10/00

The structures of the precursor glasses of a glass c containing sphene have been investigated. The result investigations are discussed. VOLUME REDUCTION: glass.

volume Reduction. grass

Krause, H.

| govt | Kernforschungszentrum Karlsruhe (FRG). | NEW RESULTS FROM THE RESEARCH AND DEVELOPMENT WORK O | INSTITUTE FOR NUCLEAR FUEL TREATMENT TECHNOLOGY.(IN | Lectures of the 6th Status Report on the Project for | and Waste Treatment, March 13-14, 1986. 545 p. | 87/04/00

Reports on the bitumenising of liquid concentrates under thermal loading), investigations on cement pro (chemical reactions, leaching) work on the separati term and tranuranic nuclides from liquid waste, we combustible waste containing PU and finally, on work vitrification of highly active waste, the latter wit the vitrification technique to be used at the Wacker Reprocessing Plant.

Swenson, C. (West Valley Nuclear Services Co., NY)

Oak Ridge National Lab. TN (USA).

OVERVIEW OF THE WEST VALLEY ENGINEERED WASTE MANAGEM

P. 297-314. Oak Ridge Model Conference: Proceedings.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT 87/00/00

A commercial reprocessing plant was operated at West York from 1966-1972 and reprocessed 640 tonnes of sp That activity resulted in the production of approxim cubic meters of high-level waste which is stored in

VOLUME REDUCTION: reprocessing.

Nikiforov, A.S.; Zakharova, K.P.; Polyakov, A.S. govt

PHYSICOCHEMICAL FOUNDATIONS OF BITUMINIZATION OF LIO RADIOACTIVE WASTES FROM A NUCLEAR POWER PLANT WITH R AND THE PROPERTIES OF THE COMPOUNDS FORMED. Soviet Atomic Energy. March 1987. V. 61(3) p. 664-66 87/03/00 The authors present the results of a feasibility stubituminization of liquid radioactive effluents from RBMK reactors of the Leningrad plant.

VOLUME REDUCTION:

Koegler, S.S.

govt Pacific Northwest Lab. WA (USA).

PILOT SCALE CERAMIC MELTER 1985-1986 REBUILD: NUCLEA

TREATMENT PROGRAM. July 1987. 63 p. 87/07/00

The pilot scale ceramic melter was subsequently dism the damaged and corroded components were repaired or An analysis of the corrosion products and the failed indicated that the electrode bus connection welds ma failed due to a combination of chemical and mechanic VOLUME REDUCTION: corrosion.

Madic, C.; Sontag, R.

CEA Centre D'Etudes Nucleaires de Fontenay-aux-Roses PRELIXE PROTOTYPE REPROCESSING UNIT FOR IRRADIATING CONTAMINATED WITH ALPHA EMITTERS.

1987. 4 p. 87/00/00

A large number of hot cells are employed for researc fuel reprocessing and the production of isotope of t elements. This process can be considered as an alter process to incineration for the reprocessing of soli

KEYWORDS LOCATION REFERENCE highly contaminated with alpha, beta, gamma emitters VOLUME REDUCTION:

AUTHOR

|Gibson, M.W.; Gerboth, D.M.; Peters, B.B.

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION govt

Rockwell Hanford Operations. WA (USA).
PRETREATMENT OF HANFORD PUREX PLANT FIRST-CYCLE WAST Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 603-608. 87/00/00

A process has been developed to pretreat neutralized high-level waste from the fuels reprocessing facilit Hanford site. The process seperates solids from the liquid, which contains soluble salts. VOLUME REDUCTION:

Fromm, R,; Holler, E. govt

Kernforschungszentrum Karlsruhe (FRG). PROCESS MONITORING SYSTEM FOR THE V-W1 VITRIFICATION Lectures of the 6th Status Report on the Project for and Waste Treatment, March 13-14, 1986. 545 p. p. 44 86/03/00

The process monitoring system described here provide instrument which should make it possible for the ope operate the process of simulated vitrification in th

possible way. VOLUME REDUCTION: monitoring.

Howden, M.; Moulding, T.L.J. (British Nuclear Fuels, Risley, UK)

priv

Societe Francaise D'Energie Nucleaire, Paris, (Franc PROGRESS IN THE REDUCTION OF LIQUID RADIOACTIVE DISC

THE SELLAFIELD SITE KO (223).
P. 1045-1054. Recod 87. Nuclear Fuel Reprocessing an Management. Volume 3. Paris, France. Societe Francai Nucleaire. 1987. 391 p.

87/00/00 Prior to reprocessing, fuel is stored in ponds. Stor subsequent reprocessing result in the generation of liquid effluents. The highly active liquors are stor stainless steel tanks and will be converted into gla term storage and disposal.

VOLUME REDUCTION: disposal and storage alternatives.

Gilbert, E.R.; Campbell, T.K; Thornhill, C.K.; Piepe govt

Pacific Northwest Lab. WA (USA).
PROGRESS OF AIR OXIDATION TEST ON SPENT LIGHT-WATER IN AN IMPOSED GAMMA FIELD.

April 1987. 16 p. 87/04/00

The spent fuel oxidation program at Pacific Northwes towards providing a data base for the oxidation beha spent light-water reactor fuel. VOLUME REDUCTION: disposal and storage alternatives. REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Weber, W.J.

govt

Pacific Northwest Lab. WA (USA).
RADIATION EFFECTS IN NUCLEAR WASTE GLASSES.

June 1987. 33 p.

87/06/00

The effects of radiation from alpha and beta decay o performance and properties of borosilcate nuclear wa

are reviewed and discussed.

VOLUME REDUCTION: glass.

Bailey, G. (UKAEA Dounreay Nuclear Power Development Establishment).

RADIOACTIVE WASTE MANAGEMENT AT DOUNREAY.

Radioact. Waste Manag. Nucl. Fuel Cycle. December 19

P.27-50. 87/12/00

The author describes the reprocessing plant at Dounr

VOLUME REDUCTION: reprocessing.

Merz, E.

govt

Kernforschungsanlage Juelich M.B.H. (FRG).
RADIOACTIVE WASTE MANAGEMENT. WASTE FORMS OF HIGH-LE

RADIOACTIVE WASTES FROM REPROCESSING.

Oct. 1987. 111 p.

87/10/00

General information about radioactive waste is follo

discussion on the internationally favoured vitrifica

high-level waste.

VOLUME REDUCTION: safety analysis, chemistry, waste

Kuribayashi, H.; Koshiba, Y.; Suzuki, K.; Shibuya, M

Japan) Post, R.G. (ed.)

priv

RADIONUCLIDE SEPARATION PROCESS (RASEP). P. 89-92. Waste Management '87: Waste Isolation in t Technical Programs and Public Education. Tucson, AZ.

Arizona Nuclear Engineering Dept. 1987.

87/00/00 Liquid radwaste generated from nuclear power plants nuclear facilites consists of a small amount of radi nuclides and a large amount of non-radioactive matte separating the two, original liquid radwaste can be reduced in volume and a large portion of it can be reduced.

non-radioactive waste.

VOLUME REDUCTION:

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

Carvalho, E.I. de; Yamura, M.; Matsuda, H.T.; Araujo Araujo, B.F. de (Inst. de Pesquisas Energeticass e N Sao Paulo, Brazil)

Associacao Brasileira de Energia Nuclear, Rio de Jar

RECOVERY OF TRANSURANIUM ELEMENTS IN TRACER LEVEL OF WASTES. (in Portugese)

P.243-250. Proceedings of the 2. General Congress of Energy- V.2. 1988. 498 p.

88/00/00

A procedure for recovery of transuranium elements for solid waste is presented. The process is safe, relia useful for environmental and waste treatment application.

Campbell, D.O.

govt

Oak Ridge National Lab. TN (USA).
RECOVERY, CONCENTRATION, AND SOLIDIFICATION OF EUROF
EXCHANGE FROM A DILUTE PROCESS STREAM.

December 1987. 27 p.

8/12/00

A promising process to recover americium from a very solution and convert it to a stable solid suitable f

disposal is to load the americum onto organic ion-ex resins and burn the resins to yield a granular solid disposed of directly or formed into a monolith using solidification processes. VOLUME REDUCTION:

Napier, J.M.; Kosinski, F.E.

govt

Oak Ridge Y-12 Plant. TN (USA).

RECYCLE AND BIODESTRUCTION OF HAZARDOUS NITRATE WAST 12 Jan 1987. 15 p.

87/01/12

The uranium recycle operation uses nitric acid in a extraction purification process, and a waste stream nitric acid and other impurities is generated. In 19 processes were developed and installed to recycle 50 wastes and to biologically decompose the rest of the VOLUME REDUCTION: waste management.

acad

REDOX CHARACTERIZATION OF SIMULATED NUCLEAR WASTE GL American Ceramic Society Journal. May 1986. V69(5) p 86/05/00

VOLUME REDUCTION: radionuclide migration.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Harjula, R.; Lehto, J.; Wallace, J. (Dept. of Radioc Univ. of Helsinki, Helsinki, Finland.)
Post, R.G. (ed.)
Lacad

REMOVAL OF CESIUM FROM NUCLEAR WASTE SOLUTIONS BY PO COBALT HEXACYANOFERRATE (II) COLUMNS.
P. 93-96. Waste Management '87: Waste Isolation in t Technical Programs and Public Education. Tucson, AZ. Arizona Nuclear Engineering Dept. 1987.

87/00/00
Removal of /SUP 137/Cs from nuclear power plant wast by ion exchange using potassium cobalt hexacyanoferr were studied.
VOLUME REDUCTION:

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION REMOVAL OF RADIOACTIVE CONTAMINANTS FROM WEST VALLEY STREAMS USING NATURAL ZEOLITES. Environmental Progress. May 1987. V. 6(2) p. 104-110 87/05/00

VOLUME REDUCTION:

VOLUME REDUCTION:

Deshmukh, U.A.

Bhabha Atomic Research Center. (India).
REMOVAL OF RADIONUCLIDES FROM LIQUID STREAMS BY REVE Applied Radiation Isotopes. 1987. V. 38(11) p. 971-987/00/00
Separation of radionuclides in trace concentrations acetate membranes has been under investigation in th laboratory, and the behaviour of some important radi such as 137Cs and 90Sr under reverse osmosis has bee

priv/govt
Environment Canada. (Canada).
REMOVAL OF RADIUM-226 FROM URANIUM MINING EFFLUENTS;
JOINT GOVERNMENT-INDUSTRY PROGRAM. (EPS 3/HA/3).
Ottawa. 1984. 32 p.
84/00/00

Reports the results of tests carried out on radium r mining effluents.
VOLUME REDUCTION:

Mueller Von Blumencron, H. govt Kernforschungszentrum Karlsruhe (FRG).

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE REPORT ON REPROCESSING PLANT AT WACKERSDORF. (IN GE Lectures of the 6th Status Report on the Project fo and Waste Treatment, March 13-14, 1986. 545 p. 87/04/00

The present state of planning and the authorisation building the German reprocessing plant in Wackersdo described.

VOLUME REDUCTION:

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Kroebel, R. (Kernforschungszentrum Karlsruhe G.M.B.) F.R., Projelt Wiederaufarbeitung und Abfallbehandlung

REPROCESSING AND RECYCLING - PROCESSES, ECONOMICS, A REPORT ABOUT THE INTERNATIONAL CONFERENCE ON REPROCINUCLEAR FUELS AND TREATMENT OF RADIOACTIVE WASTE HELD (in German)
Atomwirtsch., Atomtech. December 1987. V.32(12) P.58 87/12/00
Published in summary form only.
VOLUME REDUCTION: reprocessing, economics.

Mogg, S.; Howarth, G.G.

British Nuclear Fuels PLC. (UK).
REPROCESSING AND WASTE MANAGEMENT IN THE UK.
Waste Management '87: Waste Isolation in the US, Tec

Programs and Public Education. Tucson, AZ, (USA). Ur Arizona Nuclear Engineering Dept. 1987. p. 109-116. 87/00/00

This paper surveys progress in irradiated fuel reprovante management at the BNFL Sellafield site.

VOLUME REDUCTION:

Goldsmith, Edward; Bunyard, Peter; Hilyard, Nicholas media Wadebridge Ecological Centre. (UK).

REPROCESSING THE TRUTH. The Ecologist, 8pp.

Shows that reprocessing would contribute to radioact of the environment. Questions the ICRP emissions st the basis of recent evidence indicating that the dos relationship is not linear at low doses. Also quest aspects of British nuclear industry's philosophy on Fast breeders and reprocessing are a costly option, costs after reprocessing may be double that of disposite the costs of the costs after reprocessing may be double that of disposite the costs of the costs after reprocessing may be double that of disposite the costs of the co

VOLUME REDUCTION: economics, disposal and storage al Worthyvale Manor, Camelford, Cornwall, PL32 9YY, U.K

|Bourgeois, M.; Arod, J.; Baudin, G.; Rouyer, H. |assoc |International Atomic Energy Agency. Vienna (Austria) PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

THE COMMISSARIAT A L'ENERGIE ATOMIOUE.

Proceedings of an International Symposium on the Bac Nuclear Fuel Cycle: Strategies and Options. Jointly the International Atomic Energy Agency and the Nucle Agency of the OECD and held in Vienna, 11-15 May 198 87/05/00

A summary of R & D done at the CEA on reprocessing a presented.

VOLUME REDUCTION:

media

News & Comment. (USA). SAVANNAH RIVER'S \$1-BILLION GLASSMAKER.

Science. Vol 235. March 1987.

87/03/00

This paper discusses the work taking place at Savann involving the placement of nuclear waste in glass. VOLUME RÉDUCTION: siting.

NFW 2.2-27-1

Bruggeman, A.

govt SCK/CEN (Belgium).

SEPERATION OF TRITIUM FROM AQUEOUS EFFLUENTS.

CEC Report EUR 9107 EN. 1984. 88 p.

84/00/00

The volume of tritiated aqueous effluents may be red 3 cu m/ton of LWR fuel processed in the future by re waste streams and decontamination process reagents. reduction of waste volume may be required to minimiz disposal costs.

VOLUME REDUCTION:

SODIUM WASTE TECHNOLOGY - A SUMMARY REPORT. ANL Report 86-50. January 1987. 77 p.

87/01/00

VOLUME REDUCTION: waste management.

|priv/govt

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE Ontario Hydro. (Canada).
| SOLIDIFICATION OF LIQUID WASTE FROM THE FREON BASED | PROCESS. | 1985. 10 P. | 85/00/00

VOLUME REDUCTION:

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

Miyao, H.; Hino, S.; Sakuma, A; Nakashima, T.; Beuke Averbeke, J.

priv/govt

Power Reactor and Nuclear Fuel Development Corp., (J Corp., (Japan).; Societe Belge pour Lindustrie Nucle

SOLIDYFYING LIQUIDS AND SLUDGES FROM A REPROCESSING Nuclear Energy Institute. Aug. 1987. V32(397) p.54.

Japan's Power Reactor and Nuclear Fuel Development C solidifying concentrates and chemical sludges from t Tokai-Mura reprocessing plant in a process consisting chemical pre-treatment by co-precipitation and PII a followed by evaporation and incorporation into liquiting a four screw extruder evaporator.

VOLUME REDUCTION: chemistry.

Dippold, D.G.; Wampler, J.

govt

Battelle Pacific Northwest Lab. WA (USA).
SPENT FUEL BURNUP AND AGE: IMPLICATIONS FOR THE DESI
OF A WASTE DISPOSAL SYSTEM.

Battelle Memorial Institute Report ONWI-561. Decembe

84/12/00

LWR fuel burnup and waste age have important implica design and cost of a waste disposal system. A design analysis for nine boundary cases, representing three values and three waste ages, is detailed. VOLUME REDUCTION: design.

Williams, K.L.

SPENT FUEL TREATMENT TO ALLOW STORAGE IN AIR.
Proceedings of the Symposium on Waste Management. Tu
Arizona. Feb 3-March 28, 1988. V. II - High-level Wa
General Interest. p. 993-998.

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

88/03/00

VOLUME REDUCTION: disposal and storage alternatives.

AUTHOR

| Izumida, T.; Kawamura, F.; Chino, K.; Kikuchi, M. (H

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION Energy Research Lab., Ibaraki, Japan) priv

STABILITY OF CEMENT-GLASS PACKAGES CONTAINING SODIUM GENERATED FROM PRESSURIZED WATER REACTOR POWER PLANT Nucl. Technol. August 1987. V. 78(2) P. 185-190. 87/08/00

A new solidification technique using cement-glass, w mixture of sodium silicate and cement, was studied f solidification of sodium borate salt of liquid waste from pressurized water reactor plants. VOLUME REDUCTION:

Cross, J.E.; Holwell, G.J.; Hooper, E.W.

UKAEA Harwell Lab. Chemistry Div.; Department of the London (UK). SUMMARY OF EXPERIMENTAL WORK DURING 1986/87 ON ACTIN

DECONTAMINATION TO LOW-LEVELS. September 1987. 11 p.

87/09/00

The results from a preliminary experimental investig treatment processes for the decontamination of alpha waste effluents to very low-levels are reported.

VOLUME REDUCTION:

Borisch, R.R.; Marchett, S.

West Valley Nuclear Services Co. NY (USA).

SUPERNATANT TREATMENT OF THE FINAL DECONTAMINATION M SUPERNATANT TREATMENT SYSTEM: PROGRESS REPORT FOR TH

MARCH 1982-SEPT. 1987.

Feb. 1987. 63 p.

87/02/00

As part of the West Valley demonstration project the supernatant stored in tank 8D-2 will be partially de before encapsulation in the final glass form. This discusses selection of a method for removing CS-137, radioactive ion in the supernatant.

VOLUME REDUCTION: glass.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

ORGANIZATION

Engelmann, C. assoc

Commission of the European Communities, Luxembourg TESTING AND EVALUATION OF SOLIDIFIED HIGH-LEVEL WAST Joint Annual Progress Report 1982. 233 p. 84/00/00

VOLUME REDUCTION: monitoring.

Pentinghaus, H. AUTHOR TYPE

Kernforschungszentrum Karlsruhe (FRG).

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

THE CHEMISTRY OF VITRIFICATION OF HLW.

Lectures of the 6th Status Report on the Project for and Waste Treatment, March 13-14, 1986. 545 p. p. 1

86/03/00

The process provided for the vitrification of highly waste solutions from the planned Wackersdorf reprocise a single stage smelting process, based on a ceral furnace fed with liquid, using boron silicate glass have been performed.

VOLUME REDUCTION: chemistry, ceramics.

anon

THE CLEAN-UP OF FUSION REACTOR WASTE GASES: A STUDY EFFECTS OF IMPURITIES ON SILVER-PALLADIUM.

Platinum Metals Review. Jan. 1989. V. 33(1) p. 9.

89/01/00

The use of palladium-alloy membrane for the purification fusion reactor feed gas is discussed. Hydrogen isoto seperated from impurities in the exhaust by diffusion through the membrane. The temperature limits within

operation is feasible are 475-650K.

VOLUME REDUCTION:

Wieczorek, H.; Oser, B.

govt

Kernforschungszentrum Karlsruhe (FRG).

THE DEVELOPMENT AND ACTIVE DEMONSTRATION OF THE PROC ASHING OF COMBUSTIBLE WASTE CONTAINING PLUTONIUM.

Lectures of the 6th Status Report on the Project for and Waste Treatment, March 13-14, 1986. 545 p. p. 18

86/03/00

The Karlsruhe Nuclear Research Centre proved, throug with Pu wet ashing, the suitability of the process c for dealing with treating combustible waste containing plutonium.

VOLUME REDUCTION:

G.; Blanchon, T.; Lenail, B.

International Atomic Energy Agency. Vienna (Austria) THE FRENCH PROGRAMME FOR THE BACK END OF THE NUCLEAR Proceedings of an International Symposium on the Bac Nuclear Fuel Cycle: Strategies and Options. Jointly the International Atomic Energy Agency and the Nucle Agency of the OECD and held in Vienna, 11-15 May 198 87/05/00

France is firmly committed to immediate reprocessing fuel. The programme is described in this report.

VOLUME REDUCTION:

Lewiner, C. (Electricite de France, Paris, France. F

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

> decontamination processes and conditioning in bitume described and performance given. VOLUME REDUCTION:

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

Gloaquen, A. (Electricite de France, Paris, France, Branch) govt

THE FRENCH REPROCESSING PROGRAM. NUCLEAR FUEL CYCLE. Atomwirtsch., Atomtech. May 1988. V.33(5) p. 227-229

Reprocessing spent fuel elements in France is based and development program launched in 1949 by installa CEA.

VOLUME REDUCTION:

Ducos, O.; Delafontaine, G.; Mistral, J.P.; Puigredo (Compagnie Generale des Matieres Nucleaires, Bagnols France)

Societe Generale D'Energie Nucleaire, Paris, (France THE LIQUID EFFLUENT PROCESSING PLANT OF MARCOULE. (i P. 139-145. Recod 87. Nuclear Fuel Reprocessing and Management Vol. 1. Paris, France. Societe Francaise Nucleaire. 1987. 492 p.

87/00/00 Radioactive liquid effluents on the site of Marcoule collected in a sewage system, decontaminated for dis Rhone river and solid residues are encapsulated in b

Nannicini, R.; Dworschak, H.; Daniele, F.

govt Enea, Rome.

THE R & D ACTIVITIES CARRIED OUT IN ISPRA ACCORDING COOPERATION BETWEEN ENEA AND JRC ISPRA IN THE FIELD RADIOACTIVE WASTE MANAGEMENT.

1987. 19 p. 87/00/00

The R & D activities, carried out in Ispra sine 1984 the technological development laboratory, concerned with final hot tests of the Enea owned ester mini-pi for hlw vitrification.

VOLUME REDUCTION:

Hladik, O.; Bernhard, G.; Boessert, W.; Grahnert, T. (Zentralinstitut fuer Kernforschung, Rossendorf Bei German Democratic Republic)

THE RECOVERY OF URANIUM FROM THE WASTE SOLUTION OF F PRODUCTION.

Appl. Radiat. Isol. 1987. V.38(8) P.619-622.

87/00/00

A procedure is described for the solvent extraction uranium from the waste solution of fission 99mo prod VOLUME REDUCTION: reprocessing.

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

govt

THE SEGREGATION OF TRANSURANIC WASTE AT THE DEPARTM ENERGY'S ROCKY FLATS PLANT, GOLDEN, COLORADO. DOE Report IG-0216. March 6, 1985. 8 p.

85/03/06

Activities undertaken at the DOE Rocky Flats Plant, quantities of transuranic waste generated, are report **VOLUME REDUCTION:**

acad

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

THE TREATMENT AND CONDITIONING OF TRANSURANELEMENT | IN THE FEDERAL REPUBLIC OF GERMANY.

Radioactive Waste Management & the Nuclear Fuel Cycl 1986. V. 7(2) P. 139-151.

86/08/00

VOLUME REDUCTION:

THE TRUEX PROCESS FOR RECOVERY OF PLUTONIUM AND AMERICACID WASTE SOLUTIONS: CONTINUING DEVELOPMENT. DOE Report ANL-87-3. March 1987. 125 p. 87/03/00

VOLUME REDUCTION:

Peterson, S.; Hedin, G. (Nuclear Waste Engineering, Sweden); Post, R.G. (ed.).

THE WOX PROCESS - NEW VOLUME REDUCTION TECHNOLOGY FC WASTE. P. 665-670. Waste Management '87: Waste Isolation in Technical Programs and Public Education. Tucson, AZ.

of Arizona Nuclear Engineering Dept. 1987.

87/00/00 The obtained volume reduction cement solidification, reduction factor of 15, can be achieved by the new W

VOLUME REDUCTION:

Nikiforov, A.S.; Aloj, A.S.; Dolgov, V.V. (and other

TREATMENT OF HIGH-LEVEL RADIOACTIVE WASTES PRODUCED

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE PROCESS OF NUCLEAR FUEL REPROCESSING. (in Russian) At. Ehnerg. November 1987. V. 63(5) P. 319-323.

A review of works on the development of equipment an technological layouts for high-level radioactive was solidification is presented.

VOLUME REDUCTION:

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH Hillmer, T.P.; Doyle, R.D. (Arizona Nuclear Power Pr Pheonix, AZ) Post, R.G. (ed.)

USE OF VOLUME REDUCTION AND SOLIDIFICATION SERVICES NUCLEAR POWER PROJECTS PALO VERDE NUCLEAR GENERATING P. 681-686. Waste Management '87: Waste Isolation in Technical Programs and Public Education. Tucson, AZ. Arizona Nuclear Engineering Dept. 1987.

87/00/00
The first liquid waste transportable volume reductio solidification system began processing of radioactiv in August 1986 at the Palo Verde Nuclear Generating This paper summarizes the operation of the system dufirst campaign.

VOLUME REDUCTION:

Alexandre, D. (Compagnie Generale des Matieres Nucle Cogema, Centre de la Hague, Cherbourg, France); Chot (Compagnie Generales des Matieres Nucleaires, Centre Marcoule, Bagnols sur Ceze, France); Le Blaye, G. (S Generale pour les Techniques Nouvelles S.G.N., Saint Yvelines, France)

Societe Francaise D'Energie Nucleaire, Paris, (Franc VITRIFICATION OF FISSION PRODUCT WASTES: INDUSTRIAL AND CONSTRUCTION OF THE NEW VITRIFICATION UNITS AT L P. 289-296. Recod 87. Nuclear Fuel Reprocessing and Management Vol. 1. Paris, France. Societe Francaise Nucleaire. 1987. 492 p. 87/00/00

This paper presents the sustained throughput perform achieved during 9 years operation of the continuous vitrification line at Marcoule, plus information con technologies, maintenance, process effluents and saf VOLUME REDUCTION:

| Kaufman, F.; Wiese, H. (Deutsche Gesellschaft feur | Wiederaufarbeitung von Kernbrennstoffen, Hannover, G | F.R.)

Societe Francaise D'Energie Nucleaire, Paris, (Franc VITRIFICATION OF HIGH-LEVEL LIQUID WASTE. P. 27-288. Recod 87. Nuclear Fuel Reprocessing and W Management Vol. 1. Paris, France. Societe Francaise Nucleaire. 1987. 492 p.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT 87/00/00

The construction of the Pamela vitrification plant a belgoprocess site in Mol/Belgium was completed in la After one year of cold test campaigns with simulated solution, the plant was put into radioactive operati 1985. Up to now, more than 140 M3 of high-level liquibeen treated.

VOLUME REDUCTION:

Hoehlein, G.M.; Weisenburger, S.

govt

Kernforschungszentrum Karlsruhe (FRG). VITRIFICATION OF HIGHLY RADIO-ACTIVE FISSION PRODUCT A DIRECTLY HEATED CERAMIC SMELTER.

Lectures of the 6th Status Report on the Project for and Waste Treatment, March 13-14, 1986. 545 p. p. 1386/03/00

The erection of the pilot plant at MOL for producing capable of being stored at the Erochemic reprocessin at MOL in Belgium was completed in 1984. A report c experience gained in the vitrification of highly rad waste solutions is presented.

VOLUME REDUCTION:

Munz, R.J.; Chen, G.Q.

acad

McGill University. Dept. of Chemical Engineering. (C VITRIFICATION OF NUCLEAR WASTE IN A TRANSFERRED ARC MELTER.

Journal of Nuclear Materials. Feb. 1989. V. 161(2).

89/02/00

Borosilica glass, high silica glass, and a variety o glass-ceramic synrock have been melted in a batch tr arc plasma melter. Simulated nuclear waste was also borosilicate glass and high silica glass and sphene glass-ceramic. The results are discussed.

VOLUME REDUCTION: glass.

Ashby, P.J.; Greenfield, B.F.; Sexon, T.; Wilkins, J govt

Ukea Harwell Lab. (UK).

WASHING OF PLUTONIÙM CONTAMINATED COMBUSTIBLE MATERI OF AQUEOUS EFFLUENTS AND FURTHER WASHING STUDIES. |Aug. 1987. 39 p.

87/08/00

The results of further trials of the washing process

KEYWORDS LOCATION REFERENCE decontamination of combustible plutonium contaminate are described. VOLUME REDUCTION:

AUTHOR TYPE ORGANIZATION TITLE

Ashbrook, A.W. (Eldorado Resources Ltd., Ottawa).

PUBLISH

govt
International Atomic Energy Agency. Vienna (Austria)
WASTE MANAGEMENT IN THE REFINING AND CONVERSION OF U CANADA.

DATE ABSTRACT P. 157-165. Advances in Uranium Refining and Convers Proceedings of a Technical Committee Meeting held in 7-10 April 1986. May 1987. 287 p. 87/05/00

KEYWORDS LOCATION REFERENCE This paper addresses the approach, the successes or that Eldorado has had in this endeavor to maximise, reuse process wastes. VOLUME REDUCTION:

AUTHOR TYPE ORGANIZATION TITLE

acad/media

PUBLISH DATE ABSTRACT WEST VALLEY PROJECT PROVING THAT NUCLEAR WASTE CAN B SAFELY.

KEYWORDS LOCATION REFERENCE Energy Business. Spring 1985. V. 7(1). p. 14-19. 85/05/00 With the preliminary testing of a glass melter desig solidify high-level radioactive waste, the West Vall Demonstration Project has taken an important step in demonstrating how such wastes can be safely processe disposal.

VOLUME REDUCTION: disposal and storage alternatives,

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

Boyle, Stewart; Russell-Jones, Robin assoc Friends of the Earth. (U.K.). WHAT PRICE WINDSCALE? FOE Trust, E-42, London, 1985,70pp.

ABSTRACT

85/00/00 Examines the true cost of reprocessing, including re

KEYWORDS LOCATION REFERENCE reprocessing, waste management issues, alternatives socio-economic issues. Also contains a critique of Report on leukaemia clusters in Britain.
VOLUME REDUCTION: economics, other alternatives, hea FOE Trust, 26-28 Underwood St. London, N1 7JQ, U.K.

lanne

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Kane, M.A.

Oak Ridge Y-12 Plant, TN, (USA) Y-12 PLANT WASTE MINIMIZATION STRATEGY. 2 October 1987. 16 p.

87/10/02 This report focusses on the Y-12 plant's strategy to comprehensive waste minimization program. This approAUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION Maynes, Clifford assoc Nuclear Awareness Project

(Canada).AR POWER BOOKLET. N.A.P, Oshawa, 1988, 48pp. 88/00/00

An overview on the nuclear fuel chain in Canada, wireference to Ontario. Considers the fuel chain as system, of which waste disposal and management are Companion to The Nuclear Power Show, an audio-visual presentation on the health and environmental issues with nuclear power, energy conservation, and alternated at the connections with nuclear Suitable for high-school students and the general prescription of the school students and the general prescription.

N.A.P. P.O.Box 2331, Oshawa, Ontario L1H 7V4 NFW 2.2-30-3

priv
Growth Strategies Organization, Mountain West Resea:
ASSESSMENT OF THE IMPACT OF A NUCLEAR WASTE REPOSITO
MOUNTAIN ON THE ECONOMIC DEVELOPMENT POTENTIAL OF LA
CLARK COUNTY AND THE SURROUNDING AREA.
Task 8.1.6 Phase 4-A, Yucca Mountain Socio-economic

Mountain West Research, 1989, 12pp.

89/01/00
In order to measure the

In order to measure the impact of siting a high-level repository at Yucca Mountain, a baseline study reflewarea's competitiveness as a business centre into the is desirable. Several factors point to a likely measurement of success in the coming years, and some for possible. A repository facility would have several impacts on this business climate, especially with reimage of the area, transportation and perceived risk SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

NFW 2.2-30-1

assoc/media Wadebridge Ecological Centre. CHERNOBYL, THE END OF NUCLEAR POWER? The Ecologist, Vol.16, no.4/5, 1986 86/00/00

Special issue of The Ecologist dealing with many asr nuclear power, including nuclear waste, reprocessing effects of radiation, reactor safety, potential for alternatives.

| SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: safety analys | Worthyvale Manor, Camelford, Cornwall, PL32 9TT, U.K

REFERENCE

AUTHOR TYPE |NFW 2.2-30-4

|Devin, Delbert

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Serious Texans Against Nuclear Dumping (STAND). COMMENTS ON THE DRAFT ENVIRONMENTAL ASSESSMENT FOR S COUNTY.

1985? 5pp. 85/00/00

Details several important factual inaccuracies in DO Environmental Assessment document, relating to agric geography, water resources. Leads to mistrust of DO published information.
SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: public partic

STAND, Rt. 2, Box 28, Tulia, Texas 79088

Filby, R.H.; Stohr, J.S.

assoc

Hanford Historical Documents Review Committee. WA (U ENVIRONMENTAL AND HEALTH STUDIES OF POTENTIAL IMPACT

HANFORD OPERATIONS.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 347-350. 87/00/00

This paper summarizes investigations and historical

the Hanford reservation.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: native.

anon

HIGHER REGIONAL COURT CELLE, JUDGEMENT OF DECEMBER 9 (LEGAL TERM OF RADIOACTIVE WASTE).

Neue Jurist. Wochenschr. May 20, 1987. V. 40(21) p.

87/05/20

In its decision of December 9, 1986, the higher regicelle deals with the legal term of radioactive waste SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: waste charact

Gray, S.; Boryczka, M.; Hines, B. acad

IMPACT ANALYSIS AND COMMUNITY DEVELOPMENT NEEDS AT T WASTE MANAGEMENT '84.

Proceedings of the Symposium on Waste Management, Vo 11-15, 1984. p. 195-198.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE 84/00/00

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE

Hendrickson, P.L.; Scott, M.J.; Mullen, M.F.; Nichol

Pacific Northwest Lab. WA (USA) IMPACT OF PROPOSED FINANCIAL ASSURANCE REQUIREMENTS MATERIALS LICENSEES.

Sept. 1987. 135 p. 87/09/00

ABSTRACT

The NRC is considering a possible rulemaking that wo certain nuclear materials licensees to demonstrate f ability to clean up accidental releases of radioacti materials. The rulemaking would potentially affect a 16,350 NRC and agreement state licensees. Specific t examined in the report include: characteristics of p affected licensees; the availability and cost of var financial assurance mechanisms; the financial impact licensees; the cost of administering a financial ass and, overall benefits and costs. SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: licensing, ec

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Branch, K.M.; Cluett, C.; Page, T.L. (Battelle Human Research Centers, Seattle, WA); Post, R.G. (ed.).

INTEGRATING ENVIRONMENTAL AND SOCIO-ECONOMIC ASSESSM P.125-130. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

This paper discusses the need for close integration environmental and socio-economic assessment efforts some of the benefits and difficulties of achieving t information.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

Ehlers, P.; Pelzer, N. (Ed.).

INTERNATIONAL AND NATIONAL REGULATIONS FOR THE PROTE NORTH AND BALTIC SEAS AGAINST RADIOACTIVE EMMISSIONS Peaceful uses of Nuclear Energy and State Frontiers Europe. Proceedings. Baden-Baden, (FRG). 1987. 394 p 206-226.

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION 87/00/00

Radioactive substances have only a subordinate impor concerning harmful substances in North and Baltic Se aspects, international, are examined.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: regulations,

international.

McBrien, S.; Jones, L. govt

MITRE Corp. VA (USA). NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS: SOCIOEC IMPACTS OF CONSTRUCTING A HIGH-LEVEL WASTE REPOSITOR MOUNTAIN.

Sandia National Labs Report 84-7201. Dec. 1984. 205

Socioeconomic impacts to Nye and Clark counties asso construction and operation of a high-level radioacti repository at Yucca Mountain are estimated.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Willis, Y.A.; Morris, W.R.

priv

Westinghouse Electric Corp., PA (USA)

NUCLEAR WASTE INFORMATION MADE ACCESSIBLE: A CASE ST Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 137-142.

87/00/00
Public acceptance and cooperation for nuclear energy Westinghouse has responded to this with the establis Nuclear Waste Management Outreach Program making nuc

information easily accessible.
SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: education, wa

management.

Brody, Julie

govt

Nuclear Waste Studies Program, Texas Department of A (USA).

PANHANDLE RESIDENTS' VIEWS OF HIGH-LEVEL NUCLEAR WAS Office of Natural Resources and Office of Research a Planning, Texas Department of Agriculture, Austin, M

85/05/00

Residents of four Texas counties were surveyed regar attitudes about potential socio-economic effects of

waste repository. The majority strongly oppose cons a facility, with health and environmental effects th important factors. There are also strong concerns ab on social and economic life of the area. A farm sur conducted shows wide ranging potential effects on ag especially marketability of agricultural produce. SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: public partic Texas Department of Agriculture, Box 12847, Austin, anne

govt Oak Ridge Associated Universities, Inc. TN (USA).
RADIOACTIVE WASTE MANAGEMENT FELLOWSHIP PROGRAM: SUM PROGRAM ACTIVITIES FOR CALENDAR YEAR 1986. 1987. 44 p. 87/00/00

This document describes a graduate fellowship prograguide future scientists and engineers toward a caree high-level radioactive waste management. SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: social impact

media

ROLE OF OUTSIDE VENDORS EXPANDS IN TWO NUCLEAR-SERVI Power. December 1987. V. 131(12). p. 31-33. 87/12/00

KEYWORDS LOCATION REFERENCE SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

Citizen Alert. (USA). SENATE BILL OFFERS NUKE WASTE BRIBE.

Citizen Alert Newsletter, Reno, April, 1987, 1p.

87/04/00

U.S. Senators recommend annual payments of \$100 mill state which accepts a nuclear waste repository within borders, in exchange for expeditious site characteric waiver of rights to court actions against DOE, waive provisions of National Environmental Protection Act.

incentives point to Nevada as a likely site because relatively poor economic situation.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: policy and ad Citizen Alert, Box 5391, Reno, Nevada 89513.

anne

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE

Kasperson, R.E (chairman).

Panel on Social and Economic Aspects of Radioactive Management, Washington. (USA).
SOCIAL AND ECONOMIC ASPECTS OF RADIOACTIVE WASTE DIS

CONSIDERATIONS FOR INSTITUTIONAL MANAGEMENT.

National Academy Press, 1984.

84/00/00

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

Forsythe, R.

assoc

Mississippi Energy & Transportation Board. MS (USA). SOCIOECONOMIC ISSUES OF HIGH-LEVEL WASTE REPOSITORIE POLICIES AND PROGRAMS, HIGH-LEVEL WASTE).

Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 215-220.

84/03/00

Responses to several papers concerning the socioecon associated with high-level radioactive waste disposa compiled. The importance of developing a viable publ interaction process in the construction and operatio repositories is underscored.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

Moore, R.C. (Wyoming Industrial Siting Administratio Post, R.G. (ed.)

STRATEGIES FOR SUCCESSFUL MITIGATION OF SOCIO-ECONOM P.101-108. Waste Management '87: Waste Isolation in technical programs, and public education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

ABSTRACT

KEYWORDS LOCATION REFERENCE The successful mitigation of socio-economic impacts careful planning for project inception through projecompletion. Project location and the schedule for va construction activities can have significant effect Depending on the proximity of a proposed site to dif communities, impacts can be radically different give housing and transportation plans. SOCIO-ÉCONOMIC AND ECOLOGICAL IMPACTS: social impact

AUTHOR

|Keith, Gary

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE

govt Nuclear Waste Studies Program, Texas Department of A

THE ARROGANCE OF POWER, OR WHEN THE LEAD STARTS TO F IMPACTS AND CONSEQUENCES OF NUCLEAR WASTE REPOSITORY T.D.A. Austin, May, 1987, 23pp.

87/05/00

Real and perceived risks to natural resources (land have the effect of "quarantining" the resources of a natural resource issues are intimately bound up with economic issues. The "representative democracy" arg public participation in decision-making is simply not for the nuclear waste disposal issue.

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS: public partic

decision making. T.D.A. P.O.Box 12847, Austin, Texas 78711

NFW 2.2-30-2

govt/assoc International Atomic Energy Agency. Vienna (Austria) THE RADIOLOGICAL ACCIDENT IN GOIANIA. Report STI/PUB/815, IAEA, Vienna. 88/00/00

SOCIO-ECONOMIC AND ECOLOGICAL IMPACTS:

govt
Texas Department of Agriculture. (USA). THE TEXAS DEPARTMENT OF AGRICULTURE AND THE ISSUE OF HIGH-LEVEL NUCLEAR WASTE DUMP. T.D.A., Austin,

An outline of the involvement of the Texas Departmen Agriculture in the nuclear waste disposal issue sinc Lists TDA's criticisms of DOE's Draft Environmental of the Texas sites, which would be generally applica waste site assessment program.

SOCIO-ECONOMIC AND ECOLOGÍCAL IMPACTS: Texas Department of Agriculture, P.O.Box 12847, Aust 78711

NFW 2.2-30-5

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

Brody, Julie; Fleischmann, Judy

Nuclear Waste Studies Program, Texas Department of A

EFFECTS OF A HIGH-LEVEL NUCLEAR WASTE REPOSITORY ON COMMUNITIES: A SURVEY OF PANHANDLE RESIDENTS.

TDA, Austin, February, 1987

87/02/00

Third in a series of surveys of residents in the are a potential high-level waste repository site in Texa that those opposed to an eventual repository are als site characterization, believing that characterizati to the door to an eventual repository. Most people expect negative social and economic impacts, negative environmental impacts, there was great uncertainty a on employment. Urban and rural residents expressed kinds of concerns.

SOCIAL IMPACTS:

TDA, P.O.Box 12847, Austin, Texas 78711

NFW 2.2-31-4

Petterson, J.S. priv/govt

Impact Assessment, Inc. CA (USA).; Nuclear Waste Pro NV (USA) .

GOINIA INCIDENT CASE STUDY.

June 1988. 42 p.

88/06/00

This report necessarily begins with a brief summary describing the Goiania, Brazil, incident; followed be description of the objectives of this follow-up stud description of the specific plan of work that was un and the results of the study.

SOCIAL IMPACTS:

NFW 2.2-31-2

Robbins, Walter.

media

HEWERS OF WOOD, STORERS OF POISON: IS U.S. NUCLEAR W FOR CANADA? This Magazine (October 1987) 21(5):4-5.

87/10/00

SOCIAL IMPACTS:

Walker, D.E.Jr. (Dept. of Anthropology, Univ. of Col Boulder, CO) Post, R.G. (ed.)

TYPE ORGANIZATION TITLE

acad

NATIVE AMERICANS AND CULTURAL IMPACT ANALYSIS: THE P NUCLEAR WASTE REPOSITORY AT HANFORD.

PUBLISH

DATE ABSTRACT 87/00/00 Beneath a surface patterning of legal, political, ec other formal structures, native american reservation tribes posses many culturally distinctive values and life. Their primary objective is survival, and socio cultural impact assessment theories and methods must this objective.
SOCIAL IMPACTS: native.

P. 123-124. Waste Management '87: Waste Isolation in

Technical Programs, and Public Education. Tucson, AZ

of Arizona Nuclear Engineering Dept. 1987.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Cummings, Ronald G. (University of New Mexico).

Nuclear Waste Project Office. State of Nevada Agency

Projects. (USA).
NEW MEXICO WASTE ISOLATION PILOT PROJECT (WIPP): AN

NWPO-SE-013-88, Carson City, June 1988, 46pp.

Reviews technical, transportation and general issues relating to public confidence in DOE) which have ari the siting and construction process for WIPP (the fi repository for transuranic military wastes). issues have resulted in conflicts and may be used as lessons for future waste disposal scenarios, as well

suggesting possible mitigation methods. SOCIAL IMPACTS: geologic disposal, transport. Capitol Complex, Carson City, Nevada 89710 NFW 2.2-31-1

Foster, D. govt

Atomic Energy of Canada Limited. NUCLEAR FUEL WASTE MANAGEMENT: A PRELIMINARY EVALUAT

SOCIAL ISSUES.

Technical Report TR-332. 20 p.

85/00/00

This report identifies and explores a number of soci that arise in connection with nuclear fuel waste dis

Canada. SOCIAL IMPACTS: waste management.

|NFW 2.2-31-3

|Strassburg, W.

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

Deutsche Gesellschaft fuer Wiederaufarbeitung von Kernbrennstoffen M.B.H. (FRG). NUCLEAR WASTE DISPOSAL. STATE OF THE DEBATE IN THE F REPUBLIC OF GERMANY.

Energiewirtsch. Tagesfragen. May 1987. V. 37(5) p. 3

87/05/00 Technical problems are, and have been, hardly an iss debate about nuclear waste disposal. The predominati

increasingly important issue are general questions o regarding the peaceful use of nuclear energy in the SOCIAL IMPACTS:

REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE Blowers, A.; Lowery, D.

acad

The Open University. (UK).

OUT OF SIGHT, OUT OF MIND: THE POLITICS OF NUCLEAR W UNITED KINGDOM.

Nuclear Power in Crisis: Politics and Planning for t State. 1987. p. 129-163.

87/00/00

This paper examines the proposition that waste dispoin the UK is a political rather than a 'rational' or

'scientific' process.

SOCIAL IMPACTS: waste management.

Robbins, Walter.

media

PEOPLE AND NUCLEAR WASTE (IN MANITOBA).

NeWest Review (1988) 13(10):4-5.

88/00/00

SOCIAL IMPACTS: public participation.

acad

TECHNOCRACY AND TRUST: NUCLEAR WASTE CONTROVERSY. Journal of Professional Activities-ASCE. January 198

p. 27-40. 88/01/00

SOCIAL IMPACTS: public participation.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Fleishman, J.; Brody, J.; Galavotti, C. (Texs Dept. Agriculture, Austin, TX)

Post, R.G. (ed.)

govt

THE IMPORTANCE OF COUNTING COWS: SOCIAL AND ECONOMIC HIGH-LEVEL NUCLEAR WASTE REPOSITORY IN TEXAS.

P. 95-100. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

Impacts assessments that rely on existing records an extrapolation from broad geographic areas provide in information about social and economic conditions imp siting a high-level nuclear waste repository.

SOCIAL IMPACTS: economics, siting.

Curd, P.J.; Strange, R.C. priv

ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE | Nuclear Industry Radioactive Waste Executive, (UK). | THE PUBLIC NEEDS TO KNOW. | Waste Management '87: Waste Isolation in the US, Tec | Programs and Public Education. Tucson, AZ, (USA). Un | Arizona Nuclear Engineering Dept. 1987. p. 45-50. 87/00/00 | The conflict between a general national interest and local concern presents a formidable and perhaps inso

public relations problem.

SOCIAL IMPACTS: public participation.

Curd, P.; Monckton, N. (Nuclear Industry Radioactive Executive, Harwell, UK)

THE REAL PROBLEM: PUBLIC ACCEPTIBILITY.
Nucl. Eng. March-April 1988. V.29(2) P. 58-63.
88/03-04/00
The paper concerns the problem of public acceptibili radioactive waste disposal in the United Kingdom.
SOCIAL IMPACTS: public participation.

Colglazier, E.W.; Dungan, D.L.; Reaven, S.J. acad
The University of Tennessee. TN (USA).
VALUE ISSUES AND STAKEHOLDERS' VIEWS IN RADIOACTIVE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE MANAGEMENT.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 185-196. 87/00/00

The authors review a study in progress that is exami played by ethical and value issues in high-level and radioactive waste management. For each policy issue to separate its 'value concerns' into three categori procedural distributional, and evidential asects. SOCIAL IMPACTS: ethics.

assoc UK NIREX LTD COMMUNITY BENEFIT PROGRAMME-GENERAL PRINCIPLES. Pieda, Planning, Economic and Development Consultant

88/06/00 A study which develops a proactive approach to bring benefits to a British community in the vicinity of a

facility.
SOCIAL IMPACTS: legislation

NFW 2.2-31-5

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION Lean, Geoffrey. media

4 BILLION (POUNDS) SHOCK OF N-WASTE DISPOSAL. Observer (20 November 1988):1. 88/11/20

ECONOMICS:

Ostmeyer, R.M.; Skinner, D.J.

govt
Nuclear Regulatory Commission, Washington, DC (USA).
A PRELIMINARY EVALUATION OF THE ECONOMIC RISK FOR CI
NUCLEAR MATERIAL LICENSEE CONTAMINATION INCIDENTS.
Mar 1987. 95 p.
87/03/00

This report documents an analysis of the economic rinuclear material licensee contamination incidents. ECONOMICS:

govt
US DOE Office of Civilian Radioactive Waste Manageme
Washington, DC (USA).
ANALYSIS OF THE TOTAL SYSTEM LIFE CYCLE COST FOR THE
RADIOACTIVE WASTE MANAGEMENT PROGRAM: VOLUME 2, SUPI
INFORMATION.

June 1987. 147 p. 87/06/00

This report provides cost estimates for the fifth even the adequacy of the fee and is consistent with the patrategy and plans. ECONOMICS:

Rowe, M.D.; Lee, J.C.; Grimshaw, C.A.; Kalb, P.D. govt

Brookhaven National Lab. NY (USA).
ASSESSING ECONOMIC CONSEQUENCES OF

ASSESSING ECONOMIC CONSEQUENCES OF RADIATION ACCIDED 1987. 6 p. 87/00/00

This project reviewed the literature on the economic of accidents to determine the availability of assess and data and their applicability to the high-level waste desposal system before closure.

ECONOMICS: risk analysis.

REFERENCE

AUTHOR TYPE Beery, J.B.; Homan, F.J.

ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

Oak Ridge National Lab. TN (USA). CHARGING GENERATORS FOR WASTE MANAGEMENT COSTS. 1987. 8 p.

87/00/00 Charging waste management costs to the pollutor crea incentive to optimize processes so that less waste i and provides a basis for determining the cost effect ECONOMICS:

Gruer, E.R.; Fowler, M.E.; Rocha, G.A.

priv/govt

Sandia National Labs. NM (USA).; Parsons, Brindkerho

Douglas, Inc., CA (USA).
COST ESTIMATE OF THE YUCCA MOUNTAIN REPOSITORY BASED CHARACTERIZATION PLAN CONCEPTUAL DESIGN: NNWSI.

June 1987. 132 p. 87/06/00

This report of the life-cycle costs of a mined repos is based on the site characterization conceptual des contains estimates of two methods of waste emplaceme and horizontal. The cost and staffing detail provide estimate is commensurate with the detail in the conc design.

ECONÓMICS: geologic disposal.

DISPOSAL OF SPENT NUCLEAR FUEL AND HIGH-LEVEL WASTE: TECHNICAL/ECONOMIC ANALYSIS.

1987. 269 p. 87/00/00

An economic model for the back end of the nuclear fu developed for a once-through cycle, a standard repro cycle, and a reprocessing cycle with fractionation o ECONOMICS: retrieval, reprocessing.

assoc

International Atomic Energy Agency. Vienna (Austria) DRAFT IAEA CO-ORDINATED RESEARCH PROGRAMME ON "COMPA EFFECTIVENESS OF RISK REDUCTION AMONG DIFFERENT ENER

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

Second Research Co-ordination Meeting, April 21-25, 86/04/00

ECONOMICS: international.

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE

Freeman, H.D. govt

Pacific Northwest Lab. WA (USA).
| ECONOMIC ANALYSIS OF ENGINEERED SORBEN BARRIER TECHN
| July 1987. 8 p.
| 87/07/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT This paper evaluates the incremental cost of placing engineered sorbent barrier beneath a shallow land bu a humid climate. The cost estimates are also applica alternative uses of sorbent barrier technology such barriers around below-grade vaults. ECONOMICS: engineering, disposal and storage alterna

McKee, R.W.

govt

Battelle Pacific Northwest Lab. WA (USA). ECONOMIC ANALYSIS OF WASTE MANAGEMENT SYSTEM ALTERNA REPROCESSING WASTES (WASTE POLICIES AND PROGRAMS, HI

WASTE).
Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 383-394.

84/03/00

The costs associated with a range of alternatives fo reprocessing waste management requiring geologic rep disposal are analyzed. Four integrated treatment fac options for transuranic wastes are compared: no trea compaction; incineration; and hulls melting.

ECONOMICS: volume reduction, other alternatives.

Brody, Julie; Galavotti, Christine

govt

Nuclear Waste Studies Program, Texas Department of A

(USA)

ECONOMIC EFFECTS OF A HIGH-LEVEL NUCLEAR WASTE REPOS Texas Department of Agriculture, Austin, December, 19

Businesses in three counties in Texas were surveyed repository would affect their business and the overa of the area. Results indicate an extremely high leve about effects on business and economics. Most busin a decline in revenues, many said they would close up

away in the case of repository siting. This study em need for detailed baseline studies of economic activ proposed repository area.

ECONOMICS: social impacts.
T.D.A. Box 12847, Austin, Texas 78711

anne

Kunreuther, Howard (Department of Decision Sciences Department of Public Policy and Management, Universi Pennsylvania); Slovic, Paul (Decision Research, Euge acad/priv

FORECASTING THE ADVERSE ECONOMIC CONSEQUENCES OF A N REPOSITORY IN NEVADA.

Paper presented at the 1989 AAAS meeting, San Fransi 89/00/00

Adverse impacts may come about through perceptions of socially-amplified reactions to various incidents, a stigmatization. Studies undertaken to test this should increase in "nuclear imagery" will produce adverse in the studies and other economically-important activities. This empirically-based knowledge should be factored KEYWORDS LOCATION

REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

decisions regarding siting, constructing and operati facility, transportation and compensation. ECONOMICS: socio-economic and ecological impacts, ri Nuclear Waste Project Office, State of Nevada Agency Projects, Capitol Complex, Carson City, Nevada, 8971 NFW 2.2-32-1

Slovic, P. (Decision Rsearch, Eugene, OR) Post, R.G. (ed.)

FORECASTING THE ADVERSE EFFECTS OF A NUCLEAR WASTE R P. 91-94. Waste Management '87: Waste Isolation in t Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

What is the potential for a high-level nuclear waste to have adverse economic effects on the state or reg it is located? There are theoretical reasons to expe risks to be substantial and there are studies underw these theories.

ECONOMICS: risk analysis.

Garrett, James; Large, John

ECONOMICS: waste management.

Scottish Campaign to Resist the Nuclear Menace (SCRA MAGNOX - GOING, GOING.... SCRAM Journal 67, Sept/Oct.1988, 4pp.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION 88/10/00 Examines the cost and waste issues arising from the decommissioning the first generation of Magnox nucle in Britain.

anne

Scanlan, Larry. media

NUKES FOR A PRICE (NORTHERN ONTARIO TOWNS OFFER TO S PERMANENT DUMP FOR LOW-LEVEL RADIOACTIVE WASTE) Equinox (May-June 1988) 7(3):112, 117. 88/05/00

ECONOMICS:

govt
The Department of Agriculture. Texas (USA).
PANHANDLE AGRICULTURE, THE U.S. DEPARTMENT OF ENERGY

NUCLEAR WASTE DUMP. October 1986. 30 p.

86/10/00
This paper discusses the effect the siting of a nucl dump in Texas would have on the agriculture industry ECONOMICS:

REFERENCE

INFW 2.2-32-2

AUTHOR

TITLE

DATE

Peelle, E. (Oak Ridge National Lab., Oak Ridge, TN)

Post, R.G. (ed.)

TYPE ORGANIZATION govt

PUBLISH

THE MRS TASK FORCE: ECONOMIC AND NON-ECONOMIC INCENT LOCAL PUBLIC ACCEPTANCE OF A PROPOSED NUCLEAR WASTE

AND STORAGE FACILITY.

P. 117-122. Waste Management '87: Waste Isolation ir Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

A citizen task force evaluated the Department of Ene proposal to site a monitored retrievable storage fac Tennessee in terms of environmental, transportation,

socio-economic impacts.

ECONOMICS: ecological impacts, socio-economic and ec

impacts.

KEYWORDS

ABSTRACT

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Standing Committee On Energy, Mines and Resources

Energy, Mines and Resources NUCLEAR ENERGY UNMASKING THE MYSTERY- TENTH REPORT C

STANDING COMMITTEE ON ENERGY, MINES AND RESOURCES. Standing Committee On Energy, Mines and Resources 88/08/00

An examination of the economics of Canadian nuclear matters pertaining thereto. The committee gives recommendations to the House of Commons.

ECONOMICS:

NFW 2.2-32-3

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Watabe, T.; Sugawara, K.

govt
National Institute of Radiological Sciences. (Japan)
137CS IN URINE OF TOURISTS WHO VISITED KIEV LATE IN
ESTIMATION OF THE INTAKE OF 137CS AND 239PU DUE TO T
REACTOR ACCIDENT.

J.Radiat. Res. June 1987. V. 28(2) p. 141-149.

87/06/00

Gamma-ray spectrometry analysis was made of urine sa tourists who had visited Kiev late in April, 1986. S samples had significant amounts of 137CS ranging in concentrations. The results suggested the presence o the air in Kiev and the possibility of the inhalatio daughter nuclides by tourists. HEALTH: radionuclide migration.

Lett, J.T.; Ehmann, U.K.; Cox, A.B.

ADVANCES IN RADIATION BIOLOGY.

Orlando, FL. Academic Press Inc. 1987. 394 p.

87/00/00

This volume covers a number of areas in which new id research are playing a vital role, including cellula sensitivity, radioactive waste disposal, and space r biology.

HEALTH:

Johnson, J.R.; Brown, R.M.; Myers, D.K.

govt

Atomic Energy of Canada Limited. AN OVERVIEW OF RESEARCH AT CRNL ON THE ENVIRONMENTAL TOXICITY, METABOLISM AND DOSIMETRY OF TRITIUM. 5 p. (1986). Reprinted from Radiation Protection Dos 16(1-2):17-21.

86/00/00

HEALTH:

Reed, P.; Emery, J.

assoc

Cumbrians Opposed to a Radioactive Environment. (COR

BLACK REPORT UPDATE.

CORE, Cumbria, U.K., December, 1988

88/12/00

A local update to the Black Report which was commiss

examine the incidence of cancers and leukaemias in u olds in the area of the Windscale (Sellafield) reproplant. Calls for a review of the the Black Report ba additional data gathered by the citizens group. Ill

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

important data is often overlooked in official healt HEALTH: CORE, 98 Church St. Barrow-in-Furness, Cumbria, LA1 anne

Thompson, J.J.

assoc Cumbrians Opposed to a Radioactive Environment (COR) CORE'S CONTRIBUTION - SEASCALE CHILD CANCERS AND THI REPORT.

CORE, March, 1986, 86/03/00

Critiques reports of the British National Radiologic Board commissioned by the Black Committee investigat childhood leukaemias and cancers at Windscale and th to radioactive contamination. The reports are shown methodologically in seious error, especially with reradiation doses to lymph tissue.

HEALTH:

CORE, 83 Church St. Barrow-in-Furness, Cumbria, LA14 anne

Urquhart, John prív

DEADLY CLUSTERS.

The Guardian, March 20,1987, 1p.

Raises important questions about the statistical tr evidence in the leukaemia cluster Inquiry in Britain stringent analysis reveals an association between in cancer levels and nuclear facilities.

HEALTH: safety analysis.

anne

Working for Independence from Nuclear Danger (WIND) DR. ERNEST STERNGLASS - THE HEALTH EFFECTS OF RADIA' Waupaca, Wisc. October, 1986 86/10/21

A videotape of a presentation by Dr. Ernest Sterngla health effects of radiation.

HEALTH:

WIND, P.O.Box 441, Waupaca, Wisc. 54981

anne

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

Working for Independence from Nuclear Danger (WIND) DR. ROSALIE BERTELL - HEALTH EFFECTS OF RADIATION. Waupaca, October 1987 87/10/21 A videotape of a public presentation by Dr. Rosalie

HEALTH: WIND, P.O.Box 441, Waupaca, WI 54981 anne

Oakes, T.W.; Kimbrough, C.W.; Pritz, P.M.; Goodpast Huang, S.F.; Gist, C.S.; Weber, C.W.; Aebisher, E.D TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

F.M. Jr.

priv Martin Marietta Energy Systems, Inc., Oak Ridge, TN ENVIRONMENTAL SURVEILLANCE OF THE US DEPARTMENT OF E RIDGE RESERVATION AND SURROUNDING ENVIRONS DURING 19 1, SUMMARY AND CONCLUSIONS.

Apr 1987. 289 p.

87/04/00

Measurable evidence provides a degree of confidence that the aggressive, long-term program of corrective waste management improvements now under way will be in restoring and enhancing environmental quality in and in reducing the potential for any deleterious im human health from current or past Oak Ridge Operatio HEALTH: ecological impacts.

Edwards, Gordon

assoc

Canadian Coalition for Nuclear Responsibility.

ESTIMATING LUNG CANCERS.

CCNR, Montreal, (updated) August, 1985, 103pp.

85/08/00

Mainly deals with estimating lung cancers from expos gas, but contains important summaries of the various in estimating risk from alpha radiation. Critical of regulatory guidelines for alpha radiation. Contains from B.C. Medical Association report on the health d uranium mining.

HEALTH:

CCNR, 53 Dufferin Rd. Montreal, Quebec, H2X 3X8

anne

Bertell, Rosalie

assoc

International Institute of Concern for Public Health HUMAN HEALTH MONITORING RELATIVE TO A NUCLEAR ACCIDE IICPH, Toronto, 1984, 4pp.

DATE ABSTRACT 84/00/00
Outlines a preliminary proposal for a baseline healt carried out in the vicinity of a proposed nuclear fa designed to identify health effects arising from an the proportion of health effects attributable to the and an acceptable level of compensation for the fami affected. Costs of baseline studies would be borne operators as an assurance of responsibility in the caccident.

KEYWORDS LOCATION REFERENCE HEALTH: analytical techniques. IICPH, 830 Bathurst St. Toronto, Ont. M5R 3G1 anne

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Kocher, D.C.; Trabalka, J.R.

Oak Ridge National Lab. TN (USA).

ISSUES IN PRIORIZATION FOR REMEDIAL ACTION AT ORNL. 1987. 6 p.

87/00/00

The effective closure of existing sites of contamina radioactive material to protect public health is prethis report.

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE HEALTH:

Urquhart, John

assoc Friends of the Earth. (U.K). LEUKAEMIA AND NUCLEAR POWER IN BRITAIN - THE EVIDENC FOE Trust, E-6, London, November, 1986, 15pp. 86/11/00

Report of an FOE commissioned study into the inciden leukaemia clusters around nuclear installations. HEALTH:

FOE, 26-28 Underwood St. London, N1 7JQ, U.K. anne

govt
General Accounting Office, Washington, DC.
NUCLEAR HEALTH AND SAFETY, DOE'S PROGRESS IN IMPLEME
1985 INITIATIVES.
1987. 12 p.
87/00/00

The DOE announced several initiatives to strengthen environmental, safety, and health programs with programplementing all but one of the initiatives. HEALTH: safety analysis, ecological impacts.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE SSOC

Radioactive Waste Campaign.(USA).
ON THE JOB AT NFS - OCCUPATIONAL HAZARDS IN THE REPR
BUSINESS.

RWC Fact Sheet, New York, 6pp.

Examines occupational hazards in the reprocessing of nuclear fuel with examples from Nuclear Fuel Service Valley plant in New York State. Frequent equipment to greater exposure levels of employees and the even of temporary employees on a widespread basis to do thazardous work. No health study was undertaken. HEALTH: reprocessing, occupational exposure. RWC, 625 Broadway, New York, N.Y. 10012

Baker, D.A.; Peloquin, R.A.

priv/govt
Pacific Northwest Lab. WA (USA); Nuclear Regulatory
Washington, DC (USA).
POPULATION DOSE COMMITMENTS DUE TO RADIOACTIVE RELEA

NUCLEAR POWER PLANT SITES IN 1983.

Apr 1987. 139 p.

87/04/00
Population radiation dose commitments have been esti reported radionuclide releases from commercial power operating during 1983.

HEALTH:

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE Welty, C.G.Jr.; Kennedy, W.E.Jr.; Hawley, K.A. priv

Pacific Northwest Lab. WA (USA).

POPULATION EXPOSURES FROM US DÉPARTMENT OF ENERGY OP 18 August 1987. 15 p.

87/08/18

The DOE annually collects information concerning emicalculates radiation doses to the population within 80-kilometer radius of its operating nuclear install HEALTH: public exposure.

Rogers, V.C.; Sandquist, G.M.; Sutherland, A.A. (Rog Associates Engineering Corp., Salt Lake City) Post, R.G. (ed.)

priv

POTENTIAL EXPOSURES AND HEALTH EFFECTS FROM SPENT FU TRANSPORTATION.

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS

P. 477-482. Waste Management '87: Waste Isolation in Technical Programs and Public Education. Tucson, AZ. of Arizona Nuclear Engineering Dept. 1987.

87/00/00

The radiation exposures and consequent health effect with normal operations and postulated accidents duri transportation of spent fuel have been analysed and and the results have been summarized in the final en assessments issued by DOE.

HEALTH: transport.

Jackson, J.L.

govt Sandia National Lab. NM (USA).

PRELIMINARY WORST-CASE ACCIDENT ANAYLSIS TO SUPPORT CONCEPTUAL DESIGN OF A POTENTIAL REPOSITORY IN TUFF POLICIE AND PROGRAMS, HIGH-LEVEL WASTE).

Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 561-568.

84/03/00

A preliminary analysis was performed to identify eve could cause radiological release from surface facili site operations and their subsequent effects on huma populations.

HEALTH:

Russell-Jones, Robin; Southwood, Richard (eds)

Friends of the Earth. (U.K). RADIATION AND HEALTH.

RADIATION AND HEALTH. Wiley Books, 1987, 292pp. 87/00/00

The biological effects of low-level exposure to ioni radiation. Edited proceedings of an International C the Biological Effects of Ionizing Radiation.

HEALTH:

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS

FOE, 26-28 Underwood St. London, N1 7JQ, U.K. anne

assoc Cumbrians Opposed to a Radioactive Environment. (COR RADIATION STUDIES FOR WORKERS.

A fact sheet on radiation exposure and health effect and the public.
HEALTH: occupational exposure.

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE | CORE, 98 Church St. Barrow-in-Furness, Cumbria, LA14 anne

priv Consumer's Association of Ireland. Dublin. (Ireland) RADIATION. September 1987. 4 p.

87/09/00

Radiation has come to represent one of the major hea to mankind. This report explains what it is and why

HEALTH: public exposure.

Ralston, L.; Cohen, N. (ed.)

New York Univ., NY, USA. Medical Center.
RADIOACTIVITY STUDIES: FINAL REPORT, JUNE 1985- AUGU November 1987. 124 p.

We investigated studies of nuptunium metabolism in t primate species to derive dosimetric paramenters nec accurate human radiation risk assessments. The metab neptunium was studied in adult female baboons and ta following intravenous injection and intragastric inc HEALTH: risk analysis.

Neill, Robert H.; Channell, James K.; Wofsy, Carla; Moses A. (eds)

govt Environmental Evaluation Group, Health and Environme Department, State of New Mexico. (USA).
RADIOLOGICAL HEALTH REVIEW OF THE DRAFT ENVIRONMENTA
STATEMENT, WASTE ISOLATION PILOT PLANT.

EEG-3, Santa Fe, August, 1979, 92pp. plus appendices

79/08/00 Reviews the Environmental Impact Statement for the Waa view to possible radiological health consequences from emissions and accidents. Includes a review of geohydrological characteristics of the site as it pethe environmental, health and safety aspects of the

repository. HEALTH:

7007 Wyoming Blvd NE, St. F-2, Albuquerque, New Mexi

NFW 2.2-33-1

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH Science Policy Research Unit, University of Sussex, SCIENCE AND TRANS-SCIENCE IN RADIATION RISK ASSESSME CANCER AROUND THE NUCLEAR FUEL REPROCESSING PLANT AT U.K.

The Science of the Total Environment, 53, Elsevier S Publishers, Amsterdam, 1986,15pp.

86/09/00

Examines the role of quantitative risk assessment in protection. It has become apparent from the Sellafi that environmental mechanisms for distribution of ra are not well understood, the same is true for metabo radionuclides. There is continued uncertainty over magnitude of low-level dose response for radiation c In this light, ICRP models are often oversimplified. that greater openness by the industry when discussin difficulties may reduce public distrust of nuclear t HEALTH: risk analysis, radionuclide migration.

anne

Sagan, L. priv

SPECIAL ISSUE ON RADIATION HORMESIS. Health Physics, Volume 52, No. 5, May, 1987. 87/05/00

HEALTH:

Emery, Jean

assoc

Cumbrians Opposed to a Radioactive Environment. (COR SPEECH FOR INTERNATIONAL FORUM ON RADIATION VICTIMS. 7pp.

Gives some historical background from a citizen's pe about accidents and their consequences around the Wi plant, including the reaction of plant management. the high rates of multiple myeloma and other cancers region. HEALTH:

CORE, 98 Church St. Barrow-in-Furness, Cumbria, LA14 anne

Williams, R.G.; Olshansky, S.J. acad Colorado State University. CO (USA).

STRESS AND RADIOACTIVE WASTE MANAGEMENT.
Waste Management '87: Waste Isolation in the US, Tec
Programs and Public Education. Tucson, AZ, (USA). Un

DATE ABSTRACT Arizona Nuclear Engineering Dept. 1987. p. 259-264. 87/00/00

In the Supreme Court case 'People against nuclear er Metropolitan Edison' one of the conclusions was that Regulatory Commission did not have to consider psych distress, community cohesiveness, and sense of well-supplement to the environmental impact statement cov restart of Three Mile Island. In this paper, the aut summarize the literature on the relationship between environmentally-induced stress and its effects on he present the results of a new survey research project levels of stress were evaluated in west Chicago. HEALTH: policy and administration, public participat

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT Singh, N.P.; Wrenn, M.E.

acad Utah Univ. Salt Lake City (USA).
UPTAKE OF URANIUM FROM DRINKING WATER.

September 1987. 14 p.

87/09/00

The gastrointestinal absorption of uranium in man fr water was determined by measuring urinary and fecal 234U and 238U in eight subjects. HEALTH:

Sagan, L. priv

WHAT IS HORMESIS AND WHY HAVEN'T WE HEARD ABOUT IT Health Physics, Volume 52, No. 5, p. 521, May, 1987 87/05/00

HEALTH:

Stinebaugh, R.E.; Frostenson, J.C.

priv/govt Sandia National Lab. NM; Los Alamos Technical Assoc (USA)

WORKER RADIATION DOSES DURING VERTICAL EMPLACEMENT A OF SPENT FUEL AT THE TUFF REPOSITORY.

February 1987. 57 p.

87/02/00

One of the principal objectives of the Nevada Nuclea Storage Investigations Project is the development of designs of the equipment and facilities that will be the tuff repository for high-level radioactive waste

report has been prepared for use by the repository the conceptual design of waste handling facilities a for vertical emplacement. HEALTH: occupational exposure, waste handling and en

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Council on Scientific Affairs, American Medical Asso acad

American Medical Association.
MEDICAL PERSPECTIVE ON NUCLEAR POWER.

Journal of the American Medical Association (Nov. 17 (19): 2724-2729.

A summary of the main report which mainly deals with the physician with regard to nuclear power. The rep comments on: the nuclear fuel cycle, nuclear power p unplanned releases from nuclear reactors, and risks nuclear power.

HEALTH:

NFW 2.2-33-3

UUUUUUUUUU UUUUUUUUUU UUUUUUUUUU 4444444444444444444 Digital Equipment Corporation - VAX/VMS V

PPPP	III	L	000		N	N
P P	I	L	0	0	N	N
P P	I	L	0	0	NN	N
PPPP	I	L	0	0	N	N N
P	I	L	0	0	N	NN
P	I	L	0	0	N	N
P	III	LLLLL	000		N	N

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION media

200 IRATE CANADIANS SHOW UP TO OPPOSE US NUCLEAR DUM Montreal Gazette, April 25, 1985. p. A2. 85/04/25

PUBLIC PARTICIPATION:

A PACKAGE OF TESTIMONIES TO VARIOUS US ADMINSTRATION GEOLOGICAL DISPOSAL OF HIGH-LEVEL RADIOACTIVE WASTE.

PUBLIC PARTICIPATION:

NFW 2.2-34-9

Timmers, Donovan.

Concerned Citizens of Manitoba, Inc. (Canada). BARRELLING DOWN THE NUCLEAR WASTE HIGHWAY. Prairie Network News, Edmonton, Fall, 1986, 3pp. 86/00/00

Reviews two parallel conferences on nuclear waste ma in Winnipeg in 1986, one technical and industry orie nature, the other more broadly-based and activist-or Also describes a mock radioactive waste shipment sta citizens group and its public policy repurcussions. PUBLIC PARTICIPATION: transport.

204 Arnold Ave. Winnipeg, Manitoba, R3L 0W5

anne

Fitch, J. acad Luton College of Higher Education. (UK).

CATCH 22 IN ACHIEVING PUBLIC TRUST.

Planning (Gloucester). 13 Nov. 1987. No. 744 p. 12-1 87/11/13

The strategy of NIREX, the organization responsible disposal of radioactive wastes in the UK, in trying public acceptance of its suggested disposal sites, i The idea that opposition to nuclear power waste disposal particular locality is due to public ignorance is sh

untrue.
PUBLIC PARTICIPATION: geologic disposal.

REFERENCE

AUTHOR TYPE

Shaw, D.H.

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

DEPARTMENT OF ENERGY MISSION PLAN FOR THE CIVILIAN R WASTE MANAGEMENT PROGRAM.

Minneapolis, MN (USA). Univ. of Minnesota. 1988. VP. 88/00/00

The document illustrates the development of an agenc solving a problem, and the extent to which public in may not influence that approach.

PUBLIC PARTICIPATION: siting, policy and administrat

Emery, Jean; Thompson, J.

assoc

Cumbrians Opposed to a Radioactive Environment. (COR EVIDENCE TO THE HOUSE OF COMMONS SELECT COMMITTEE ON RADIOACTIVE WASTE.

CORE, Barrow-in-Furness, 1985, 16pp.

85/00/00

Summary of problems associated with radioactive wast Cumbria, with special attention to the reprocessing Sellafield (Windscale) and its effects on the surrou environment and economy, the volumes of waste arisin of reprocessing. Recommends that spent fuel reproce halted, and the fuel be stored in dry casks at react PUBLIC PARTICIPATION: reprocessing, socio-economic a impacts.

CORE, 98 Church St. Barrow-in-Furness, Cumbria LA14

NFW 2.2-34-1

Montenegro, Raul (Fundacion para la Defensa del Ambi

Greenpeace. (Argentina).
IN PATAGONIA, WHO WOULD BURY WHO? NO TO THE NUCLEAR

September, 1988, 3pp

88/09/00

Text of pamphlet opposing nuclear waste repositories Argentina. Especially expresses concern about the i of foreign wastes.

PUBLIC PARTICIPATION:

FUNAM, Casilla de Correo 83, Correo Centrale, 5000 C

Argentina

anne

govt

US DOE Office of Civilian Radioactive Waste Manageme INFORMATION SERVICES DIRECTORY.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION May 1987. 27 p. 87/05/00

This directory will facilitate dissemination of info is a reference document that lists the sources of pr information available to the States, Indian tribes, public.

PUBLIC PARTICIPATION: native.

Ehmke, W.

TITLE

PUBLISH DATE ABSTRACT INTERMDEDIATE STEPS. THE MOVEMENT AGAINST NUCLEAR PC GORLEBEN AND WACKERSDORF.

Koeln. Koelner Volksblatt Verl. 1987. 231 p.

87/00/00

In February 1987, it was ten years ago that Prime Mi Albrecht designated Gorleben as the site where the r waste disposal center was to be erected. This volume the protest movement of those ten years in chronolog It reflects political and social aspects as well as PUBLIC PARTICIPATION: risk analysis, social impacts.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

TITLE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

govt

Energy, Mines and Resources. (Canada).
MINUTES OF THE PROCEEDINGS AND EVIDENCE OF THE STAND ON ENVIRONMENT AND FORESTRY. April 1, 1987. 28 p.

87/04/01

PUBLIC PARTICIPATION:

NFW 2.2-34-2

govt

Énergy, Mines and Resources. (Canada).
MINUTES OF THE PROCEEDINGS AND EVIDENCE OF THE STAND

ON ENVIRONMENT AND FORESTRY.

April 7, 1987. 25 p. 87/04/07

PUBLIC PARTICIPATION:

NFW 2.2-34-2

Gyorgy, A.

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT priv

NO NUKES: EVERYONE'S GUIDE TO NUCLEAR POWER.

Black Rose Books. 478 p.

87/00/00

International experts look at the energy crisis and

shaping our society.

PUBLIC PARTICIPATION: ethics.

Wilder, M.; Hall, S.

Department of Ecology, State of Washington. OVERCOMING BARRIERS TO PUBLIC UNDERSTANDING OF NUCLE

MANAGEMENT.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 181-184.

87/00/00 Communications with the public to promote public und of, and participation in, nuclear waste issues is cr However, such communication with the public is falli This paper discusses the authors' observations of ho loss of credibility has affected the high-level nucl repository siting process and suggests methods to ov primary barrier.
PUBLIC PARTICIPATION:

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS**

Concerned Citizens of Manitoba.

PRESENTATION TO THE HOUSE OF COMMONS STANDING COMMIT ENVIRONMENT AND FORESTRY.

Feb 3, 1987. 21 p. 87/02/03

PUBLIC PARTICIPATION:

NFW 2.2-34-6

Lecuyer, G.

assoc

Manitoba Environment and Workplace Safety and Health PRESENTATION TO THE HOUSE OF COMMONS STANDING COMMIT ENVIRONMENT AND FORESTRY.

Feb 5, 1987. 23 p. 87/00/00

PUBLIC PARTICIPATION:

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT Poch, D. priv

PRESENTATION TO THE HOUSE OF COMMONS STANDING COMMIT ENVIRONMENT AND FORESTRY.

Feb 3, 1987. 17 p. 87/02/03

PUBLIC PARTICIPATION:

NFW 2.2-34-7

Easterling, J.B. (Policy and Institutional Planning Washington, DC)

Post, R.G. (ed.)

govt

PUBLIC CONFIDENCE IN RADIOACTIVE WASTE DISPOSAL. P. 43-46. Waste Management '87: Waste Isolation in t Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

Broader citizen involvement and confidence in nuclea disposal plans and programs is needed if the nation successful in permanent isolation of such waste. Thi explores ways to improve public information, educati participation in order to enhance public confidence. PUBLIC PARTICIPATION:

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Anderson, R.B.

govt

Atomic Energy of Canada Limited.
PUBLIC CONSULTATION AND THE CANADIAN FUEL WASTE MANA PROGRAM. CONFERENCE ON RADIOACTIVE WASTE MANAGEMENT. 2nd International Conference on Radioactive Waste Ma Sept. 7-11, 1986. p 240-246. 86/00/00

PUBLIC PARTICIPATION:

Dixon, R.S.; Anderson, R.B.; Greber, M.A.; Hillier, govt Atomic Energy of Canada Limited.
PUBLIC CONSULTATION IN THE CANADIAN NUCLEAR FUEL WAS

Waste Management '87: Waste Isolation in the US, Tec

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

anne

Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 155-162. 87/00/00

AECL has developed a public consultation program as component of the Canadian Nuclear Fuel Waste Managem PUBLIC PARTICIPATION:

Lyons, W; Fitzgerald, M.R.; McCabe, A.

PUBLIC OPINION AND HAZARDOUS WASTE.

Forum Appl. Res. Public Policy. (AUT 1987). V. 2(3) The level of government involvement in hazardous was

has become the policy issue of the 1980's. The publi of waste facilities because of the potential for cat survey of Tennessee households found that the public most faith in public agencies to manage hazardous wa PUBLIC PARTICIPATION: disposal and storage alternati

Cumbrians Opposed to a Radioactive Environment, Gree Friends of the Earth, U.K. QUESTIONS YOU SHOULD ASK NIREX. Greenpeace.

Question/answer sheet on the topics of public opinio consultation concerning radioactive waste management Criticizes the Nirex consultation process. Advocate storage in order to minimize population exposure, mi number of contaminated sites, and transportation acc PUBLIC PARTICIPATION: education. FOE, 26-28 Underwood St. London, N1 7JQ, U.K.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT assoc

Fond du Lac Reservation. Cloquet, MN (USA). REPORT ON DRAFT AREA RECOMMENDATION REPORT FOR THE C REPOSITORY PROJECT.

1987. 20 p. 87/00/00

The Fond du Lac tribe is an affected tribe whose pro interests will be impacted by the crystalline reposi as identified in the draft ARR. The NWPA required pa by affected tribes, of which the Fond du Lac band of Superior Chippewa is included.

KEYWORDS LOCATION REFERENCE PUBLIC PARTICIPATION: native.

AUTHOR

TYPE ORGANIZATION TITLE **PUBLISH** DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Davis, G.A. (Legal Environmental Assistance Foundati Knoxville, TN)

govt

Oak Ridge National Lab. TN (USA).
ROLE OF THE PUBLIC IN THE OAK RIDGE MODEL.
P. 39-43. Oak Ridge Model Conference: Proceedings. 1
87/00/00

The role of the public in relation to the Oak Ridge waste management practices in Oak Ridge, TN are disc Oak Ridge Environmental Advisory Committee is one wa public has been involved and continues to be involved Ridge Model.

PUBLIC PARTICIPATION:

Pat Delbridge Associates Incorporated.

govt

Atomic Energy of Canada Limited. SELECTION OF GROUPS TO PARTICIPATE IN THE CANADIAN N WASTE MANAGEMENT PUBLIC CONSULTATION PROGRAM.

Technical Record TR-333. 13 p.

85/00/00

PUBLIC PARTICIPATION:

Frech, E.R. assoc

SOCIAL AND POLITICAL ASPECTS OF NUCLEAR FUEL WASTE M Presentation to the House of Commons Standing Commit Environment and Forestry, Feb. 2, 1987. 4 p. 87/02/02

PUBLIC PARTICIPATION: social impacts.

Edwards, G.

Canadian Coalition for Nuclear Responsibility. SUBMISSION TO THE HOUSE OF COMMONS STANDING COMMITTE ENVIRONMENT AND FORESTRY.

PUBLISH DATE ABSTRACT February 3, 1987. 58 p. 87/00/00

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT PUBLIC PARTICIPATION:

NFW 2.2-34-8

Peelle, Elizabeth (Oak Ridge National Lab)

TESTIMONY BEFORE THE MRS COMMISSION. Atlanta, February, 1989, 11pp.

89/02/16 Reviews the experience of the Clinch River MRS Task examination of the MRS issue in Tennessee. Institut concerns are amongst the most serious and most poorl by the current political process. Local government groups such as this one hold some promise in overcom institutional problems and thus contribute to social acceptable and durable decisions.

PUBLIC PARTICIPATION:

130 Oklahoma Ave. Oak Ridge, Tennessee, 37830

anne

Poch, David assoc

Energy Probe, et.al. TESTIMONY TO HOUSE OF COMMONS STANDING COMMITTEE ON AND FORESTRY, REGARDING HIGH-LEVEL NUCLEAR WASTE IN Canadian Government Publishing Services, Ottawa, Feb

87/02/00

Discusses some of the regulatory problems with AECB, its role in deciding criteria for AECL's research. questions AECB's qualifications as a moral or ethica Questions the partiality of the process and emphasiz for public trust. Questions the validity of a conce assessment in the absence of considering specific si PUBLIC PARTICIPATION: ethics.

Supply and Services, Canada, Ottawa K1A 0S9

NFW 2.2-34-2

Rycroft, Al; McGregor, Alayne

assoc

Initiative for the Peaceful Uses of Technology. (Can TESTIMONY TO THE HOUSE OF COMMONS STANDING COMMITTEE ENVIRONMENT AND FORESTRY, REGARDING HIGH-LEVEL NUCLE CANADA.

Canadian Government Publishing Centre, Ottawa, March

87/03/00

A basic guide to the uses and limitations of compute Models are simulations of simplified concepts of rea cannot be relied upon for completely accurate predic Gives examples of typographical, logical, false assu conceptual inadequacy errors which have had important accordance of the computer of the co consequences. Gives some brief examples of how error KEYWORDS LOCATION

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

these could have consequences for nuclear waste disp PUBLIC PARTICIPATION: Canadian Government Publishing Centre, Supply and Se Canada, Ottawa, K1A 0S9 NFW 2.2-34-2

Gale, R.W. govt

Office of Civilian Radioactive Waste. (USA).

THE DRAFT MISSION PLAN AMENDMENT.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 47-52.

87/00/00 The draft mission plan amendment provides an opportustates and Indian tribes and other involved parties participate in a process that no other nation afford citizens.

PUBLIC PARTICIPATION:

Peelle, E. govt

Oak Ridge National Lab. TN (USA).

THE MRS (MONITORED RETRIEVABLE STORAGE) TASK FORCE: NON-ECONOMIC INCENTIVES FOR LOCAL PUBLIC ACCEPTANCE PROPOSED NUCLEAR WASTE PACKAGING AND STORAGE FACILIT

Mar 1987. 11p. 87/03/00

A joint Oak Ridge - Roane County Citizen Task force Department of Energy's (DOE) proposal to site a moni retrievable storage facility in Tennessee in terms o environmental, transportation, and socioeconomic imp case study examines how the task force used mitigatl compensation and incentives (economic and non-econom address the problem of distrust of DOE and to change local impact balance from negative to positive. PUBLIC PARTICIPATION:

Willis, Y.A. (Program Development, Westinghouse Elec Waste Technology Services Div., Madison, PA); Dyes, Harhalakis, G. priv

THE NEED FOR PUBLIC EDUCATION: NUCLEAR WASTE DISPOSA P. 93-98. Management of Energy Technology, 1987. New (USA). American Society of Mechanical Engineers. 198 87/00/00

An extensive in-depth public information campaign mu

instituted if the public is to deal with nuclear was intelligently and reasonably, rather than emotionall Westinghouse has developed the nuclear waste managem program, an objective seminar series, to make the ne information both available and accessible.

KEYWORDS LOCATION REFERENCE PUBLIC PARTICIPATION:

AUTHOR TYPE

ORGANIZATION

TITLE PUBLISH DATE

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Babin, R. priv

THE NUCLEAR POWER GAME. Black Rose Books. 236 p.

87/00/00

An investigation into Canadian nuclear energy and th

popular opposition.
PUBLIC PARTICIPATION:

Greber, M.A. acad

THE ONTARIO PUBLIC'S OPINION ABOUT NUCLEAR FUEL WAST Conference Proceedings, 2nd International Conference Radioactive Waste Management, September 7-11, 1986. 86/09/00

PUBLIC PARTICIPATION:

Hoffman, W.D.

West Valley Nuclear Services Co., Inc., NY (USA).
THE PUBLIC VISITS A NUCLEAR WASTE SITE: SURVEY RESUL

WEST VALLEY NUCLEAR SERVICES CO. Waste Management '87: Waste Isolation in the US, Tec

Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 163-170.

87/00/00

This paper discusses the results of the 1986 survey West Valley Demonstration Project open house where a nuclear waste cleanup is in progress. Over 1400 peop polled on what they think is most effective in educa public on nuclear waste.

PUBLIC PARTICIPATION: social impacts, education.

Johnson, Barbara

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

Radioactive Waste Project, Minnesota Public Interest Foundation. (USA).
THE ROLE OF CITIZEN PARTICIPATION IN SITING A HIGH-L

RADIOACTIVE WASTE DISPOSAL FACILITY.

MPIRF, Minneapolis, May, 1986, 7pp.

86/05/06

Emphasizes the need for public participation in any disposal and siting program, in order to ensure poli feasibility and social acceptability. Citizens part helps to establish the moral and ethical parameters solutions.

KEYWORDS LOCATION PUBLIC PARTICIPATION: disposal and storage alternati

REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE anne

Hoffman, W.D.

priv

Nuclear Fuel Services, Inc. West Valley, NY (USA). WEST VALLEY DEMONSTRATION PROJECT: PUBLIC INFORMATION

OBJECTIVES, 1988. 30 September 1987. 16 p.

87/09/30

This report describes the objectives and proposed ac the public information program.

PUBLIC PARTICIPATION:

Jim, R.; Wittman, J.; Tousley, D.R.; Hovis, J.B. (Ya Tribe, Olympia, WA)
Post, R.G. (ed.)

assoc

YAKIMA TRIBAL PERSPECTIVES ON HIGH-LEVEL SELECTION PP. 47-50. Waste Management '87: Waste Isolation in t Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

When congress went through the arduous process of fa comprehensive plan for resolution of the nation's lo nuclear waste problem, it explicitly recognized that federal efforts in this area had been inadequate. PUBLIC PARTICIPATION: native.

PPPP III 000 N N P P I L 0 0 N N P P Ι L 0 0 NN N PPPP Ī 0 0 NNN L P I 0 0 L N NN P I L 0 0 N N P 000 III LLLLL N N 000 **PPPP** FFFFF PPPP CCCC SSSS III N N L P P F S P P Ι L 0 N N C 0 CC P P I 0 0 NN L P F S P L N I PPPP PPPP 0 FFFF SSS L 0 NNN L P Ι NN P C F S 0 0 N L L P N P C F S L 0 0 N P SSSS P III LLLLL 000 Ν N LLLLL CCCC F

VVVVVVVVV VVVVVVVVV VVVVVVVVV AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE **PUBLISH** DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

LOCATION

REFERENCE

Mauthe, Rene. media

ALL IN OUR BACKYARD: WILL CANADA BECOME THE WORLD'S Alberta (Western) Report (February 29 1988) 15(11): 88/02/29

ETHICS: international.

Wieser, Anne; Robbins, Walter. media

CURRENTS OF THOUGHT AND NUCLEAR WASTE. City Magazine (1987) 9(4):26-28. 87/00/00

ETHICS:

Martin, S.

DISSOLUTION NO SOLUTION. (TO THE DISPOSAL OF RADIOAC Scram J. May-June 1988. No 65. P. 14-15.

88/05-06/00

The plan by the central electricity generating board 60 tonnes of nuclear waste, currently stored at the magnox station, and discharge the resulting solution filtering, into the English Channel, is questioned.

ETHICS: ecological impacts.

Kasperson, Roger E.; Abdollahzadeh, Sassan. (Centre Technology, Environment and Development, Clark Unive acad

Nuclear Waste Project Office, State of Nevada Agency Projects. DISTRIBUTIONAL EQUITY PROBLEMS AT THE PROPOSED YUCCA

FACILITY, DRAFT.

NWPO-SE-009-88, Carson City, July, 1988, 26pp.

88/07/00

Issues of fairness in equity distribution will be ce social acceptability and public acceptance of a nucl siting policy. A conceptual methodology for assessm various types of inequities arising from repository developed. A number of approaches are detailed.

ETHICS: siting.

|Capitol Complex, Carson City, Nevada 89710 NFW 2.2-35-1

AUTHOR | Fong, J.T. (National Bureau of Standards, Gaithersbu TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

Bates, J.K.; Seefeldt, W.B. (eds.).
govt
Argonne National Lab. Il (USA).
GLOBAL DATABASE STRATEGY FOR PUBLIC ENGINEERING DECI
P. 45. Scientific Basis for Nuclear Waste Management
Pittsburgh, PA (USA). Materials Research Society. 19

A historical review of how engineers contributed to of societal (public) and individual (private) proble presented, with emphasis on the last thirty years wh began to alter drastically the practice of engineeri concept of a 3-prong representation of the engineeri making process, i.e. database, analysis, and judgeme introduced. Three case studies are used: (A) The Nuc Safety Study of 1975, (B) The Alaska Pipeline Weld D Assessment Study of 1976, and (C) The Welding Resear Council-Pressure Vessel Research Committee (PVRC) Ro Flaw Detection Program (1966-86) for Thick-Section S ETHICS: decision making, engineering.

Desautels, Louise. media

NUCLEAIRE: DES REBUTS POUR LES TEMPS FUTURS. Quebec Science (June 1987) 25(10):14-20. 87/06/00

ETHICS:

PPPP	III	L	00	0	N	N
P P	I	L	0	0	N	N
P P	I	L	0	0	NN	N
PPPP	I	L	0	0	N N	N
P	I	L	0	0	N	NN
P	I	L	0	0	N	N

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

Golchert, N.W.; Duffy, T.L.

govt Argonne National Lab. Il (USA).

1986 ANNUAL SITE ENVIRONMENTAL REPORT FOR ARGONNE NA LABORATORY.

Mar 1987. 115 p.

87/03/00

The results of the environmental monitoring program National Laboratory for 1986 are presented and discuevaluate the effect of Argonne operations on the env measurements were made for a variety of radionuclide surface water, groundwater, soil, grass, bottom sedi milk; of the environmental penetrating radiation dos variety of chemical constituents in surface water, q and Argonne effluent water. ECOLOGICAL IMPACTS: monitoring.

Miltenberger, R.P.; Royce, B.A.; Naidu, J.R.

govt Brookhaven National Lab. NY (USA) 1986 ENVIRONMENTAL MONITORING REPORT.

June 1987. 119 p.

87/06/00

The environmental levels of radioactivity and other found in the vicinity of BNL during 1986 are summari

report ECOLOGICAL IMPACTS: monitoring.

Amano, H.; Garten, C.T.Jr.; Lomax, R.D.

govt

Oak Ridge National Lab. TN (USA).
A FIELD SURVEY OF ENVIRONMENTAL TRITIUM IN AREAS ADJ

SOLID-WASTE STORAGE AREAS.

May 1987. 39 p. 87/05/00

A survey of tritium concentrations in surface water, water, and atmospheric moisture was made throughout

Oak Creek Watershed in 1986.

ECOLOGICAL IMPACTS:

Irvine, A.R.; Forsberg, C.W.

Oak Ridge National Lab. TN (USA).

ACCEPTANCE CRITERIA CONSIDERATIONS FOR MISCELLANEOUS

Jan 1987. 20 p.

87/01/00

ABSTRACT

KEYWORDS LOCATION EPA standards set forth limitations regarding releas accessible environment adjacent to a geologic reposi ECOLOGICAL IMPACTS: regulations.

REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Goodwin, B.W.; Garisto, N.C.; Barnard, J.W.

govt

Atomic Energy of Canada Limited AN ASSESSMENT OF THE LONG-TERM IMPACT OF CHEMICALLY CONTAMINANTS FROM THE DISPOSAL OF NUCLEAR FUEL WASTE

87/00/00

ECOLOGICAL IMPACTS: chemistry.

Ruskbrook, P.E. (ed.)

assoc

UKAEA Atomic Energy Research Establishment, Harwell. Environmental and Medical Sciences Div. AN ASSESSMENT OF THE PRELIMINARY MICROBIOLOGICAL STU

CORES FROM ELSTOW CONDUCTED BY THE UNIVERSITIES OF L

WARWICK. April 1987. 78 p. 87/04/00

Two preliminary studies were conducted to establish or absence of micro-organisms in samples of Oxford c Elstow. Bacterial colonies were the dominant organis

ECOLOGICAL IMPACTS:

Talmage, S.S. Chliton, B.D.

Oak Ridge National Lab. TN (USA).

CLEANUP PROCEDURES AT THE NEVADA TEST SITE AND AT OT RADIOACTIVELY CONTAMINATED SITES INCLUDING REPRESENT OF CLEANUP AND TREATMENT OF CONTAMINATED AREAS.

September 1987. 50 p.

This review summarizes available information on clea procedures. Selected measures that could be useful i the costs of cleaning up radioactively contaminated

described.

ECOLOGICAL IMPACTS: mitigation.

Amiro, B.D.; Sheppard, S.C.

govt

ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

Atomic Energy of Canada Limited.
CONCENTRATION RATIOS OF NATURAL U FOR CATTAIL POLLEN 3 p. (1987). Reprinted from Health Physics (1987) 52 87/00/00

ECOLOGICAL IMPACTS: vegetation.

AUTHOR TYPE ORGANIZATION TITLE

Sheppard, M.I.; Thibault, D.H.; Sheppard, S.C. govt

Atomic Energy of Canada Limited. CONCENTRATIONS AND CONCENTRATION RATIOS OF U, AS, AN PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE **PUBLISH** DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

PINE GROWN IN A WASTE-SITE SOIL AND AN EXPERIMENTALI CONTAMINATED SOIL.

10 p. (1985). Reprinted from Water, Air and soil Pol 26:85-94, 1985.

85/00/00

ECOLOGICAL IMPACTS: vegetation.

Platford, R.F.; Joshi, S.R. (Canada Centre for Inlar Burlington, Ont.) govt

DOSE RATES TO AQUATIC LIFE NEAR A U WASTE SITE. Health Phys. January 1988. V. 54(1) P. 63-68. 88/01/00

Radiation dose rates to aquatic organisms have been from radionuclide levels in fish, in water and in th near an abandoned u waste site.

ECOLOGICAL IMPACTS: fish.

Zach, R.; Amiro, B.D.; Champ, D.R.; Cornett, R.J.; I Killey, R.W.D.; Lee, D.R.; Moltyaner, G.L.; Osborne, Sheppard, M.I.; Sheppard, S.C. (AECL, Pinawa, Manito Whiteshell Nuclear Research Establishment) govt

ENVIRONMENTAL RESEARCH FOR THE CANADIAN NUCLEAR FUEL MANAGEMENT PROGRAM.

Radioact. Waste Manage. Nucl. Fuel Cycle. September 8(2-3) P. 197-217. 87/09/00

The objective of the environmental program is to imp generic biosphere model, with suitable parameter val distributions, for probabalistic concept assessments ECOLOGICAL IMPACTS:

McKay, W.A.; Szweda, C.

Úkaea Harwell Lab. Environmental and Medical Science FISH RADIOACTIVITY LEVELS IN CUMBRIA. Atom, (London). Nov. 1987. No. 373 p. 2-5.

87/11/00

The paper is a summary of a recent report commission Cumbrian Sea Fisheries Committee on radioactivity le and shell fish from off the Cumbrian Coast. A descri given of the sample collection and the sample analys ÉCOLOGICAL IMPACTS: fish.

Marshall, E.

HANFORD'S RADIOACTIVE TUMBLEWEED. Science (Washington, D.C.). (26 Jun 1987). V. 236 p. DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT 87/06/26

The Department of Energy has not yet settled on a pl dealing with the extensive ground contamination at H After 44 years of storing radioactive wastes on site temporary measures begin to look permanent; cleanup billions of dollars. Radioactive wastes have been em steel tanks, earthen ditches, trenches, cribs, ponds underground drains and deep wells. Long-lived transu have also been buried in boxes or drums that will so Burrowing animals and tumbleweed, with roots that ca feet, are spreading the contamination. ECOLOGICAL IMPACTS: vegetation.

Bechtel National, Inc. TN (USA).
MIDDLESEX SAMPLING PLANT AND MIDDLESEX MUNICIPAL LAN
SITE ENVIRONMENTAL REPORT, MIDDLESEX, NEW JERSEY: CA
1986.

May 1987. 88 p. 87/05/00

The MSP and MML sites are part of the formerly utili remedial action program, a DOE program to decontamin otherwise control sites where residential radioactiv remain from either the early years of the nation's a program or commercial operations causing conditions congress has mandated DOE to remedy. The monitoring the MSP and MML measures radon gas concentration in

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT external gamma radiation levels; and uranium and rad concentrations in surface water, groundwater, and se ECOLOGICAL IMPACTS: monitoring, public exposure.

Louderbough, E.T.; Post, R.G.

International Technology Corp. NM (USA).

MONITORING FOR SALT EFFECTS AT THE WASTE ISOLATION P

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 631-636. 87/00/00

The ecological monitoring program at WIPP is designe and measure changes in several ecosystem compartment Measurements of salt displacement is the primary mea parameter.

ECOLOGICAL IMPACTS: monitoring.

Collins, E.; O'Farrell, T.P.

priv EG and G Energy Measurements, Inc., Goleta, CA (USA) NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS: A REVIE REQUIREMENTS FOR BIOLOGICAL INFORMATION IN FEDERAL, LOCAL ENVIRONMENTAL LAWS AND REGULATIONS. (NNWSI). January 1987, 35 p. 87/01/00

Biological information concerning Yucca Mountain col

1980 is evaluated to determine if it is sufficient to the requirements of the various laws that pertain to environmental protection or to development of waste repositories.

ECOLOGICAL IMPACTS: monitoring, biology.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT |Anon. |Kupferman, S.L. (ed.) |govt

Sandia National Lab. NM (USA).

OVERVIEW OF NARES ABYSSAL PLAIN ENVIRONMENTAL PROGRA

MEETING. (NARES ABYSSAL PLAIN)

P. a2-a19. Subseabed Disposal Project Annual Report, termination of project: Physical Oceanography and wa geochemistry studies, October 1984 through May 1986. 87/05/00

A meeting was held in Albuquerque on March 14 and 15 develop plans for a six-year interdisciplinary resea at the Nares abyssal plain and to discuss arrangemen

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION |fall 1985 oceanographic mission to the Nares abyssal | ECOLOGICAL IMPACTS: marine disposal.

Cohen, J.; Smith, C.F.; Cook, J.R.; King, C.M.

Science Applications International Corp., Pleasanton Savannah River Lab., Aiken, SC (USA).
PROBABILISTIC ASSESSMENT OF RADIOLOGICAL IMPACTS FRO

PROBABILISTIC ASSESSMENT OF RADIOLOGICAL IMPACTS FR TRANSURANICS IN WASTE AT THE SAVANNAH RIVER PLANT.

1988. 9 p. 88/00/00

These results indicate that, depending on the degree conservatism one desires to apply in selecting input the calculated dose could range from relatively insivalues to doses well in excess of current standards radiation exposure.

ECOLOGICAL IMPACTS: public exposure.

Neuhauser, K.S.; Cashwell, J.W.; Reardon, P.C.; Ostm (Sandia National Labs, Albuquerque, NM); McNair, G.W. Pacific Northwest Labs., Richland, WA).

priv/govt International Atomic Energy Agency. Vienna (Austria) PROJECTED ENVIRONMENTAL IMPACTS OF RADIOACTIVE MATER TRANSPORTATION TO THE FIRST US REPOSITORY SITE.

V.1 P.407-414. Packaging and Transportation of Radio Materials (PATRAM '86). Proceedings of an Internatio Symposium on the Packaging and Transportation of Rad Materials held in Davos, 16-20 June 1986. Vienna. IA 780 p. Proceedings series.

87/00/00

The relative national environmental impacts of transfuel and other nuclear wastes to each of nine reposing the US were analysed.

ECOLOGICAL IMPACTS: transport, risk analysis.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

govt Department of the Environment. London (UK). RADIOACTIVE WASTE MANAGEMENT AND RADIOACTIVITY IN TH ENVIRONMENT. A REPORT OF RESEARCH COMMISSIONED BY TH OF THE ENVIRONMENT 1984-1986. London (UK). H M Stationery Office. Jan 1987. 50 p. 87/01/00 The paper is a report of research commissioned by th Kingdom Department of the Environment 1984-1986 on '

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Waste Management and Radioactivity in the Environmen contents contain a summary of the major research ach during this period. ECOLOGICAL IMPACTS: geology, risk analysis, marine d thermodynamics.

Guthrie, J.E.; Acres, O.E.; Dunford, W.E.

Atomic Energy of Canada Limited. RADIOACTIVITY LEVELS IN WINNIPEG RIVER FISH AT THE W NUCLEAR RESEARCH ESTABLISHMENT NEAR PINAWA, MANITOBA 1986. 78 p. 86/00/00

ECOLOGICAL IMPACTS: fish.

Arthur, W.J.; Markham, O.D.; Groves, C.R.; Keller, B National Engineering Lab., Idaho Falls, ID). govt

RADIONUCLIDE EXPORT BY DEER MICE AT A SOLID RADIOACT DISOSAL AREA IN SOUTHERN IDAHO.

Health Phys. January 1987. No. 1 P.45-53.

87/01/00 Concentrations in deer mice tissues collected from a waste disposal area in southeastern Idaho were signi

higher than those from a control area. ECOLOGICAL IMPACTS: radionuclide migration.

govt US DOE Assistant Secretary for Nuclear Energy, Washi Office of Remedial Action and Waste Technology. REMEDIAL ACTION AT THE WELDON SPRING SITE: DRAFT ENV IMPACT STATEMENT. Feb 1987. 46 p.

87/02/00

Several alternatives are considered for long-term ma wastes associated with remedial action activities at Spring site, located about 48 km west of St. Louis, ECOLOGICAL IMPACTS: mitigation.

ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE REVIEW OF DOE'S COMPLIANCE WITH ENVIRONMENTAL LAWS ITS HAZARDOUS AND MIXED RADIOACTIVE-HAZARDOUS WASTES BEFORE A SUBCOMMITTEE OF THE COMMITTEE ON GOVERNMEN' HOUSE OF REPRESENTATIVES, 99TH CONGRESS, 2ND SESSION 1986.

Washington, DC. Government Printing Office. 1987. 2:

The review focused on compliance with the Resource (and Recovery Act of 1976 and the Comprehensive Envir Response, Compensation and Liability Act of 1980 to whether DOE facilities are meeting the environmental required of private companies.

ECOLOGICAL IMPACTS: regulations, legislation.

Thorson, R.M.

assoc

Mashantucket Pequot Tribe, Ledyard, CT (USA). REVIEW OF DRAFT CRYSTALLINE REPOSITORY PROJECT REPORT INDIAN RESERVATION): FINAL REPORT.

1 February 1988. 45 p.

88/02/01

The Mashantucket Pequot tribal council was concerned possible emplacement of a nuclear waste repository : crystalline rocks of eastern Conneticut and Rhode Is tribe was especially concerned with the hydrological because the tribe's lands occur in an area with all complications cited above, including one of the high concentrations of large brittle fractures in souther

ECÓLOGICAL IMPACTS: native, fractures, hydrology, si

Looney, B.B.; Pickett, J.B.; King, C.M.; Holmes, W.G., Smith, J.A.

govt

Savannah River Lab. SC (USA). SELECTION OF CHEMICAL CONSTITUENTS AND ESTIMATION OF FOR ENVIRONMENTAL ANALYSIS OF SAVANNAH RIVER PLANT VENVIRONMENTAL INFORMATION DOCUMENT.

March 1987. 207 p.

87/03/00

Chemical constituents which have been disposed of at facilities are identified and inventories estimated. estimates are to be used in assessing the environment of various waste management options at the Savannah ECOLOGICAL IMPACTS: chemistry.

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE Golchert, N.W.

govt

Argonne National Lab. IL (USA).

SITE SURVEILLANCE AND MAINTENANCE PROGRAM FOR PALOS

FOR 1986. April 1987. 44 p.

87/00/00

The results of the environmental monitoring program site A/plot M in the Palos Park Forest Preserve Area are presented. The monitoring program reflects remed subsequent to the original radiological characteriza site.

ECOLOGICAL IMPACTS: monitoring.

Sharples, F.E.

govt

Oak Ridge National Lab. TN (USA).

STANDARDS FOR REMEDIAL ACTION: HOW CLEAN IS CLEAN.

February 1987. 4 p.

87/02/00

The particular cleanup standards applied at a remedi site will depend upon a variety of site-specific fac as which of the hazardous waste statutes is jurisdic applied.

ECOLOGICAL IMPACTS: mitigation, regulations.

govt
The Nuclear Waste Project Office. NV (USA).
STATE OF NEVADA COMMENTS ON THE U.S. DEPARTMENT OF E

ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED HIGH-LEVEL WASTE SITE AT YUCCA MOUNTAIN. VOL I.

March 1985. 200 p.

85/03/00

The State of Nevada offers comments on the US DOE Dr Environmental Assessment for the Proposed High-Level Waste Site at Yucca Mountain.

ECOLOGICAL IMPACTS:

NFW 2.2-36-1

govt
The Nuclear Waste Project Office. NV (USA).
STATE OF NEVADA COMMENTS ON THE U.S. DEPARTMENT OF E
ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED HIGH-LEVEL
WASTE SITE AT YUCCA MOUNTAIN. VOL II.

PUBLISH DATE ABSTRACT March 1985. 200 p.

85/03/00
The State of Nevada offers comments on the US DOE Dr Environmental Assessment for the Proposed High-Level Waste Site at Yucca Mountain.

KEYWORDS LOCATION

REFERENCE NFW 2.2-36-2

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT** Garten, C.T.; Lomax, R.D.

ECOLOGICAL IMPACTS:

govt

Oak Ridge National Lab. TN (USA). STRONTIUM-90 CONTAMINATION IN VEGETATION FROM RADIOA SEEPAGE AREA AT ORNL, AND THEORETICAL CALCULATIONS O ACCUMULATION BY DEER.

June 1987. 60 p.

87/06/00

This report describes data obtained during a prelimi characterization of 90sr levels in browse vegetation vicinity of seeps adjacent to ORNL solid waste stora where deer were suspected to accumulate 90sr through chain.

ECOLOGICAL IMPACTS:

Tyler, P.A. (University Coll. of Swansea, UK)

Department of the Environment. London (UK). STUDIES OF THE REPRODUCTIVE BIOLOGY OF DEEP-SEA MEGA

FINAL REPORT. July 1987. 65 p. 87/07/00

The final report describes the general biology and e 15 holothurians, 3 asteroids, 2 zoanthids and 1 crus studied in reports I-XIII, the sampling methods used station data.

ECOLOGICAL IMPACTS: biology.

Restrepo, L.F.; Dietesfeld, C.A. (ed.)

Rockwell International Corp. Golden, CO. Rocky Flats STUDY PLAN FOR THE SENSITIVITY ANALYSIS OF THE TERRA ATMOSPHERIC CODE (TRAC).

18 August 1987. 15 p.

87/08/18

Rocky Flats Plant is presently developing a computer model the dispersion of potential or actual releases radioactive or toxic materials to the environment, a the public consequences from these releases.

KEYWORDS LOCATION REFERENCE ECOLOGICAL IMPACTS: public exposure.

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT Sumerling, T.J.; Sweeney, B.J. (Associated Nuclear S Epsom, Uk)

Department of the Environment. London UK; Associated Services, Epsom, (UK).
THE ESTIMATION OF RADIOLOGIAL IMPACT FROM THE DISPOS

RADIONUCLIDES WITH DOMESTIC AND COMMERICIAL WASTES. April 1987. 119 p.

In the UK, limited quantities of radionuclides are d

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE with non-radioactive domestic and commercial wastes terms of exemption orders or authorizations granted radiochemical inspectorate. This report presents a m and basis for the calculation of individual and coll to workers and to members of the public from such di ECOLOGICAL IMPACTS: occupational exposure, public ex

Gaudie, S.C.; Greenfield, B.F.; Spindler, M.W.; Wilk (UKAEA Atomic Energy Research Establishment, Harwell assoc

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

THE INFLUENCE OF ORGANIC WASTE MATERIAL ON THE NEAR TERM.

P. 90. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only

ECOLOGICAL IMPACTS: radionuclide migration.

McCabe, A.M.

Central Electricity Generating Board, Berkeley, CA. Nuclear Labs, (USA).
THE POTENTIAL SIGNIFICANCE OF MICROBIAL ACTIVITY IN

WASTE DISPOSAL.
December 1987. 58 p.

87/12/00

The aim of this report is to assess the potential si microbial activity in radioactive waste disposal. ECOLOGICAL IMPACTS: chemistry, radionuclide migratio

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

media

THE SELLAFIELD DISCHARGES. Ecologist. 1986. V. 16(5) p. 182. 86/00/00

ECOLOGICAL IMPACTS:

AUTHOR TYPE ORGANIZATION TTTLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Steele, W.D.

priv UNC Geotech. CO (USA).

CONSTRUCTION AND TESTING OF A BLOWER-DOOR ASSEMBLY I OF AIR PRESSURE WITHIN STRUCTURES.

Sept. 1987. 45 p.

87/09/00

The technical measurements center is evaluating seve to decrease the time required to determine an annual radon-daughter concentration in structures. One meth stabilizing air pressure within the structure at a c pressure. This report describes the construction and testing of a blower-door system to maintain a consta differential air pressure within a structure.

EARTH SCIENCE: engineering.

acad

EFFECTS ON FISSURE CALCITE BY RECHARGE WATER: SOME I

RELATED TO 14C DATING OF GROUNDWATER. Nuclear Waste Management Symposium. Stockholm (Swede

9-11, 1985. p. 129. 85/09/00

EARTH SCIENCE: hydrogeology, groundwater.

Germain, R.

French Atomic Energy Commission. (France). EXPERIMENTAL STUDY OF LONG-LIVED RADIONUCLIDES TRANS (AMERICIUM, PLUTONIUM, TECHNETIUM) BETWEEN LABELLED AND ANNELIDAE (NEREIS DIVERSICOLOR, ARENICOLA MARINA CEC Report EUR 9214 EN. 1984. p. 327-341. 84/00/00

The bioavailability of sediments labeled by americiu plutonium 238 or 239, and techetium 95 to two marine

annelids was investigated. EARTH SCIENCE: chemistry.

Brotzen, O.

assoc

Canadian Nuclear Society. (Canada). GROUNDWATER TRAVEL TIMES IN GRANITE AND GNEISS. Canadian Nuclear Society 2nd International Conference Radioactive Waste Management. Sept. 7-11, 1986. p. 1

DATE ABSTRACT KEYWORDS LOCATION 86/09/00

EARTH SCIENCE: groundwater.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

acad

HUMIC SUBSTANCES IN GROUNDWATERS. Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 525. 85/09/00

EARTH SCIENCE: groundwater.

Holcomb, D.J.; Shields, M.

govt

Sandia National Labs. NM (USA)

HYDROSTATIC CREEP CONSOLIDATION OF CRUSHED SALT WITH

October 1987. 125 p. 87/10/00

Adding small amounts of water to the as-mined salt r consolidation rate such that times required for the an effective barrier to fluid flow are of the order at stresses in the 1 MPA range.

EARTH SCIENCE: salt.

Kimbrell, A.; Taylor, P.

US Army Corps of Engineers. MS (USA). MICROFINE GROUTNG IN TIGHT FRACTURES.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 667-672.

87/00/00

Microfine cements were used to grout tight fractures Mcnary Dam. Six boreholes were grouted with differen mixes. The results indicate that tight fractures can

with microfine cements. EARTH SCIENCE: cement.

Morner, Nils-Axel; Somi, Edmond (Paleogeophysics and Geological Institute, Stockholm) and Zuchiewicz, Wi (Institute of Geological Sciences, Jagiellonian Univ Krakow)

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION acad

NEOTECTONICS AND PALEOSEISMICITY WITHN THE STOCKHOLM INTRACRATONAL REGION IN SWEDEN.

Tectonophysics, Elsevier Science Publishers, Amsterd

press). Refer to TECTO 02310.

89/00/00

Recent studies of post-glacial faulting and evidence neo-tectonic disturbances in Sweden invalidates the geodynamic concept for safe disposal of high-level w bedrock.

EARTH SCIENCE: geology

Paleogeophysics and Geodynamics, University of Stock

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT |S-10691, Stockholm, Sweden anne

acad

RADIATION DAMAGE IN NATURAL TITANITE BY CRYSTAL STRU

Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 363.

85/09/00

EARTH SCIENCE:

Lau, F. priv

RADIOACTIVITY AND NUCLEAR WASTE DISPOSAL.

New York, NY. John Wiley & Sons Inc. 1987. 637 p.

87/00/00

The nature and consequences of ionizing radiation ar the physical, biological, and medical level. Account of the origins of radioactive waste in various count the world.

EARTH SCIENCE: biology.

Elder, J.C.

govt

Los Alamos National Lab. NM (USA).
TA-2 WATER BOILER REACTOR (PHASE 1) DECOMMISSIONING:
GROUND WATER INTERFERENCE DURING OUTDOOR COMPONENT R SOIL DECONTAMINATION.

1987. 10 p.

87/00/00

This report deals with the extensive groundwater tha

encountered in excavations as structures, pipe and s contaminated with CS-137 removed during the outdoor TA-2 water boiler reactor decommissioning and how co of nearby surface water was avoided. EARTH SCIENCE: groundwater.

Apps, J.A.; Neil, J.M.; Jun, C.H.

govt

Nuclear Regulatory Commission, Washington, D.C. (USA

Berkeley National Lab. (USA).
THERMOMECHANICAL PROPERTIES OF GIBBSITE, BAYERITE, B DIASPORE, AND THE ALUMINATE ION BETWEEN O AND 350

DEGREE/CELSIUS. Jan. 1989. 346 p.

89/01/00

A requirement for modelling the chemical behaviour o in a nuclear waste repository is accurate thermodyna pertaining to the participating minerals and aqueous particular, it is important that the thermodynamic p the aluminate ion be accurately determined, because AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE | Klenze, R.; Kim, J.I. (Technische Univ. Muenchen, Ga | Germany, F.R. Inst. fuer Radiochemie)

acad

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

A DIRECT SPECIATION OF TRANSURANIUM ELEMENTS IN NATU SYSTEMS BY LASER-INDUCED PHOTOACOUSTIC SPECTROSCOPY. P. 138. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only.

CHEMISTRY:

Vuorinen, Ulla (Finland).

A REVIEW ON COLLOIDAL SYSTEMS IN GENERAL AND IN RESP NUCLEAR WASTE DISPOSAL.

Apr 1987. 125 p.

87/04/00

Recently, the possible importance of colloids in con nuclear waste disposal, especially in radionuclide m has been emphasized. This study is a literature surv consisting first of a general approach on colloidal their properties. Then a review on natural groundwat (clays and organs) is given following descriptions o methods to study colloids. Lastly the role of colloi nuclear waste disposal is discussed.

CHEMISTRY:

| Veal, B.W.; Mundy, J.N.; Lam, D.J. (Argonne National Freeman, A.J. (Northwestern Univ., Evanston, IL. Dep Physics and Astronomy); Lander, G.H. (Commission of Communities, Karlsruhe, Germany, F.R. European Inst. | Transuranium Elements) (eds.) | acad/assoc

ACTINIDES IN SILICATE GLASSES. CHAPTER 4.

P. 271-309. Handbook on the Physics and Chemistry of Actinides. Vol. 5/ Amsterdam, Netherlands. 1987. 385 87/00/00

In this chapter the physics and chemistry are consid silicates containing dissolved actinides attention in on transuranic solutes.

CHEMISTRY: glass.

AUTHOR TYPE ORGANIZATION Ho, C.H.; Miller, N.H. govt Atomic Energy of Canada Limited. TITLE

PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

CHEMISTRY:

86/00/00

HEMATITE PARTICLES.

Science 110(1):165-171, 1986.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Dill, J.A.; Jones, T.E.; Marcy, A.D.; Baechler, M.O. priv

ADSORPTION OF URANYL SPECIES FROM BICARBONATE SOLUTI

7 p. (1986). Reprinted from Journal of Colloid and 1

Rockwell International Corp. WA (USA).
AN EVALUATION OF THE STABILITY OF SYNTHETIC GRANDE F GROUNDWATER FORMULATIONS GR-3 AND GR-4.

Mar 1987. 44 p. 87/03/00

Simple solubility calculations indicate that synthet Ronde groundwater formulations GR-3 and GR-4 may be with respect to the precipitation of certain compone CHEMISTRY: groundwater.

Bennett, B.A.; Rees, L.V.C. (Imperial Coll. of Scien Technology, London, UK. Dept. of Chemistry) acad

Department of the Environment. London (UK).
APPLICATION OF MOESSBAUER SPECTROSCOPY TO THE STUDY ADSORBED ON DEEP-SEA SEDIMENTS.

March 1987. 52 p.

87/03/00

A neptunium moessbauer spectrometer was constructed moessbauer spectra of NPAL laves phase alloy obtain Neptunium was sorbed onto a calcareous deep sea sedi sea water, using a successive-loading technique. Thi demonstrated that moessbauer spectroscopy has great an aid to understanding the mechanism of actinide so natural systems.

CHEMISTRY: radionuclide migration, marine disposal.

Stuckless, J.S.

govt

Atomic Energy of Canada Limited.
APPLICATIONS OF U-TH-PB ISOTOPE SYSTEMATICS TO THE P RADIOACTIVE WASTE DISPOSAL.

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE Applied Geochemistry. Jan-Feb. 1987. V. 2(1) p. 136. 87/01/00

Abstract only.

CHEMISTRY: disposal and storage alternatives.

AUTHOR

Bajo, C. (Nationale Genossenschaft zur Lagerung Radi Abafelle, Baden, Swtizerland); Hoehn, E.; Keil, R. (Eidgenoessisches Inst. fuer Reaktorforschung, Wuere Switzerland)

TYPE ORGANIZATION

Technische Univ. Muenchen, Garching, Germany, F.R. I

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE Radiochemie; Commission of the European Communities, (Belgium) .

CHEMICAL CHARACTERIZATION OF THE GROUND WATER FROM T SITE AT THE GRIMSEL ROCK LABORATORY.

P. 84. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only.

CHEMISTRY: groundwater.

Taylor, P.; Ashmore, S.D.; Owen, D.G.

govt

Atomic Energy of Canada Limited. CHEMICAL DURABILITY OF SOME SODIUM BOROSILICATE GLAS BY PHASE SEPARATION.

6 p. (1987). Reprinted from the Journal of the Ameri Society (1987) 70(5):333-338.
87/00/00

CHEMISTRY: glass.

Sood, D.D.;

assoc

International Atomic Energy Agency. Vienna (Austria) CHEMICAL INVESTIGATIONS RELEVANT TO PLUTONIUM RECYCL Proceedings of an International Symposium on the Bac Nuclear Fuel Cycle: Strategies and Options. Jointly the International Atomic Energy Agency and the Nucle Agency of the OECD and held in Vienna, 11-15 May 198 561-562.

87/05/00

Poster presentation.

CHEMISTRY: volume reduction.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Technische Univ. Muenchen, Garching, Germany, F.R.. Radiochemie; Commission of the European Communities, (Belgium).

CHEMÍSTRY AND MIGRATION BEHAVIOR OF ACTINIDES AND FI PRODUCTS IN THE GEOSPHERE. ABSTRACTS.

1987. 196 p.

87/00/00

The scope of the conference was focused on recent de three key areas, namely, the primary phenomena in nu geochemistry, the migration behavior in geologic med

modelling process. CHEMISTRY: radionuclide migration, modelling.

govt

Oak Ridge National Lab. TN (USA). CHEMISTRY DIVISION: ANNUAL REPORT FOR PERIOD ENDING

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE 1987.

Aug. 1987. 148 p.

87/08/00 This report is divided into the following sections: chemistry; aqueous chemistry at high temperatures ar geochemistry of crustal processes to high temperatur pressures; chemistry of advanced inorganic materials and dynamics of advanced polymeric materials; chemis transuranium elements and compounds; separations che reactions and catalysis in molten salts; surface sci to herogeneous catalysis; electron spectroscopy; che related to nuclear waste disposal and more. CHEMISTRY:

Lieser, K.H.; Steinkopff, T.

govt
Technicsche Hochschule Darmstadt (FRG). CHEMISTRY OF RADIOACTIVE IODINE IN THE HYDROSPHERE A GEOSPHERE.

Radiochimica Acta. 1989. V. 46(1) p. 49-55.

89/00/00

The chemistry of iodine in the hydrosphere is discus sorption of radioactive iodine on sediments from the above the salt dome at Gorleben is investigated at 1 salt concentrations.

CHEMISTRY: radionuclide migration.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Ho, C.H.; Miller, N.H.

assoc

Canadian Nuclear Society. (Canada). CHEMISTRY OF URANIUM COLLOIDS IN GROUNDWATER ENVIRON Canadian Nuclear Society 2nd International Conference Radioactive Waste Management. Sept. 7-11, 1986. p. 6 86/09/00

CHEMISTRY: groundwater.

Ross, C.A.M.; Degueldre, C.; Ivanovich, M.; Longwort B. (CEC); Chapman, N.B. (BGS).

Commission of the European Communities, Luxembourg. COLLOID BENCHMARK EXERCISE: AN INTERLABORATORY STUDY AND CHARACTERIZATION TECHNIQUES FOR NATURAL COLLOIDS GROUNDWATER.

p. 314-347. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

This paper presents the results of a comparative stumethods of colloid sampling.

CHEMISTRY:

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

Belam, B.S. (Mississippi State Univ., Itta Bena, USA

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium) .

COLLOIDAL ABSORPTION OF CATIONS AND IT'S APPLICATION RADIOACTIVE WASTE MANAGEMENT

P. 131. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p.

Published in summary form only.

CHEMISTRY:

Baumann, E.W.; Coleman, C.J.; Darraker, D.G.; Scott, govt Savannah River Lab. SC (USA)

COLORMETRIC DETERMINATION OF FE(II)/FE(III) RATIO IN 1987. 13 p.

87/00/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

A colormetric method has been developed to determine FE(II)/FE(III) ratio in glass containing nuclear was CHEMISTRY: waste characterization.

Atkins, M.; Beckley, A.N.; Glasser, F.P.; MacPhee, D Univ., UK)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

CONDÍTIONING EFFECT OF CEMENTS ON WASTE FORM SPECIAT

NEAR FIELD ENVIRONMENT

P. 43. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p.

Published in summary form only.

CHEMISTRY: cement, waste characterization.

Fielding, P.E.; White, T.J. (Department of Chemistry of New England, Australia) acad

CRYSTAL CHEMICAL INCORPORATION OF HIGH-LEVEL WASTE S ALUMINOTITANATE-BASED CERAMICS: VALENCE, LOCATION, R DAMAGE, AND HYDROTHERMAL DURABILITY.

J. Mater. Res. (May 1987) 2(3):387-414.

A compilation is made of the crystallographic mechan (simulated) radwaste species are incorporated in the phases zirconolite, perovskite, hibonite, and "holla CHEMISTRY:

Gray, W.J. priv

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

Pacific Northwest Lab. WA (USA).

DATA REPORT ON GAMMA RADIOLYSIS TESTS ON PBB1 AND PL SALT REPOSITORY PROJECT.

Mar 1987. 18 p.

87/03/00

The tests described in this data report are describe 986 Technical Program Plan (TPP), WBS element 0302 radiolysis, for the waste package program at Pacific Laboratory (PNL), conducted for the Salt Repository through the Office of Civilian Radioactive Waste Mar Department of Energy. CHEMISTRY: salt.

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE Gray, W.J.

Pacific Northwest Lab. WA (USA).
DATA REPORT ON LEACH TESTS OF PU-DOPED UO2 IN PBB1 E
REPOSITORY PROJECT.

October 1987. 25 p.

87/10/00

This report provides results from a series of leach conducted using nonirradiated uranium dioxide doped plutonium to simulate the alpha activity of spent fu used in recent spent fuel leach tests.
CHEMISTRY: salt, leaching.

Nitsche, H.; Lee, S.C.; Gatti, R.C.

Lawrence Berkeley Lab. CA (USA).
DETERMINATION OF PLUTONIUM OXIDATION STATES AT TRACE PERTINENT TO NUCLEAR WASTE DISPOSAL.

April 1987. 27 p.

87/04/00

A scheme was developed for the determination of oxid of plutonium in environmental samples. The method in combination of solvent extractions and coprecipitati CHEMISTRY:

Stammose, D.; Tran, T.M. (CEA Centre D'Etudes Nuclea Fontenay-aux-Roses, France.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium)

DETERMINATION OF SPECIES PRESENT IN LEACHATES OF NUC P. 123. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p.

87/00/00 Published in summary form only.

CHEMISTRY: leaching.

AUTHOR

Wieczorek, H.; Oser, B. (Kernforschungszentrum, Karl Germany, F.R.); Deckwer, W.D. (Technische Hochshcule TYPE ORGANIZATION Germany, F.R.).

Commission of the European Communities, Luxembourg.

TTTLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

DEVELOPMENT AND ACTIVE DEMONSTRATION OF ACID DIGESTI BURNABLE PLUTONIUM BEARING SOLID WASTES. PART 1. RES 2. TABLES AND FIGURES.

1987. 252 p. 87/00/00

The investigations were focussed on the active demon the process in a technical scale plant by treatment waste which contained about 7 kg of plutonium. CHEMISTRY:

Ivanovich, M.; Longworth, G.; Wilkins, M.A.

UKAEA Harwell Lab. Nuclear Physics Div.; Department Environment, London (UK).
DEVELOPMENT OF NATURAL COLLOID SAMPLING AND CHARACTE

TECHNIQUES. FINAL REPORT APRIL 1986- MARCH 1987.

November 1987. 28 p.

87/11/00

A sampling technique based on diafiltration has been for the in situ collection of colloids from groundwa There is some evidence that particle aggregation can during storage and possibly during concentration. CHEMISTRY:

Forstner, R.; Schooer, J.

acad

Technical University of Hamburg. (FRG).
DIAGENESIS OF CHEMICAL ASSOCIATIONS OF CS-137 AND OT

ARTIFICIAL RADIONUCLIDES IN RIVER SEDIMENTS. Env Technology Letters. July 1984. V. 5(7). p. 295-384/07/00

Sediments were sampled upstream and downstream of th power plants located on the Neckar, Danube, and Wese West Germany. The effects of diagenesis on the chemi associations of Cs-137, cobalt 60, and other artific radionuclides were investigated. Chemical extraction indicate that artificial radionuclides in aquatic sy generally associated with more labile solid phases t stable counterparts.

CHEMISTRY: radionuclide migration.

Muurinen, A.; Penttilae-Hiltunen, P.; Rantanen, J. (Research Centre of Finland, ESPOO).

Bates, J.K.; Seefeldt, W.B. (eds.)

govt Argonne National Lab. IL (USA). TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

DIFFUSION MECHANISMS OF STROTIUM AND CESIUM IN COMPA BENTONITE.

P. 803-812. Scientific Basis for Nuclear Waste Manac Pittsburgh, PA (USA). Materials Research Society. 15 8700/00

In this research, the diffusion of strotium and cesi bentonite slabs in stationary state has been measure CHEMISTRY: radionuclide migration.

Robin, M.J.L.; Gillham, R.W.; Oscarson, D.W.

Atomic Energy of Canada Limited.

DIFFUSION OF STRONTIUM AND CHLORIDE IN COMPACTED CLA MATERIALS.

Reprinted from the Soil Science Society of America J (September-October 1987) 51(5):1102-1108. 87/09/00

CHEMISTRY: clay.

Stroes-Gascoyne, S.; Johnson, L.H.; Beeley, P.A.; Se

Atomic Energy of Canada Limited.

DISSOLUTION OF CANDU UO2 FUEL AT VARIOUS TEMPERATURE

CONDITIONS.

10 p. (1985). Reprinted from Materials Research Soci Proceedings 50, Scientific Basis for Nuclear Waste M IX, p. 317-326, 1985.

85/00/00

CHEMISTRY: dissolution.

Hayward, P.J.; Vance, E.R.; Doern, D.C.

govt

Atomic Energy of Canada Limited. DTA/SEM STUDY OF CRYSTALLIZATION IN SPHENE GLASS-CER Reprinted from the American Ceramic Society Bulletin 66(11):1620-1626.

87/00/00

CHEMISTRY: glass.

Reed, D.T.; Van Konynenburg, R.A. govt

ORGANIZATION

TITLE PUBLISH DATE

Argonne National Lab. IL (USA); Lawrence Livermore N CA (USA) EFFECT OF IONIZING RADIATION ON MOIST AIR SYSTEMS.

1987, 14 p. 87/00/00

ABSTRACT

KEYWORDS LOCATION The radiation chemistry of nitrogen/oxygen/water sys reviewed. General radiolytic effects in dry nitrogen systems are relatively well characterized. Mechanist from the studies reviewed are summarized and discuss relation to characterizing the gas phase during the period of a repository in tuff. CHEMISTRY: tuff.

REFERENCE AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

priv Pacific Northwest Lab. WA (USA). EFFECTS OF RADIATION ON THE OXIDATION POTENTIAL OF S October 1987. 18 p.

Gray, W.J.

CHEMISTRY: salt.

87/10/00 Two different types of experiments have shown that a gamma radiation each increase the redox potential of

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Bridger, N.J.; Turner, A.D. govt

Úkaea Headquarters. (UK). ELECTROCHEMICAL ION EXCHANGE. (INCLUDING RADIOACTIVE

16 Sept. 1987. 12 March 1986. 4 p. 86/03/12

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE

In a method of electrochemically removing ions from solution by establishing an electrochemical cell whe solution, as cell electrolyte, is caused to flow bet working electrode that includes an ion exchange mate second electrode that optionally includes an ion exc material, the polarity of the cell is repeatedly rev CHEMISTRY:

Morita, Yasuji; Kubota, Masumitsu (Japan Atomic Ener Inst., Tokai, Ibaraki. Tokai Research Establishment)

JNSTA EXTRACTION OF PENTAVALENT NEPTUNIUM WITH DI-ISODECYL J. Nucl. Sci. Technol. (Tokyo). (Mar 1987) 24(3):227

ABSTRACT

KEYWORDS LOCATION REFERENCE

ORGANIZATION

AUTHOR TYPE

87/03/00

CHEMISTRY:

TITLE **PUBLISH**

Zouad, S.; Loos-Neskovic, C. Laboratoire d'Analyse par Activation Pierre Sue, Cen Nucleaires de Saclay, 91-GIF-sur-Yvette (France). FIXATION OF STRONTIUM ON POLYANTIMONIC ACID.

As a fundamental study for separating neptunium from radioactive waste, the mechanism and the rate of ext

pentavalent neptunium with DIDPA were investigated.

Journal of Radiaoanalysis Nuclear Chemistry. -Articl 1987. p. 337-349.

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT 87/04/00

The fixation mechanisms of strontium on polyantimoni were studied in order to choose the best recovery co from nuclear wastes. The composition and structure, and capacity were determined. CHEMISTRY: reprocessing.

Moody, J.B.

Pacific Northwest Lab. WA (USA).

FLUID INCLUSION BRINE COMPOSITIONS FROM PALO DURO BA

Proceedings of Salt Repository Project's Workshop in Migration. March 1987, p. 8-9, Appendix/C.59-C.64.

87/03/00 The fluid inclusion analyses were done on salt sampl San Andres Cycle 4 and 5. The stable isotope composi fluid inclusion brines was measured on duplicate sam from the same fluid inclusion brine for correlation geochemical content with the stable isotopic content CHEMISTRY: salt.

Bruton, C.J.; Shaw, H.F.

govt

Lawrence Livermore National Lab. CA (USA). GEOCHEMICAL SIMULATION OF REACTION BÈTWEEN SPENT FUE

AND J-13 WATER AT 250C AND 900C.

November 1987. 12 p.

87/11/00

Geochemical simulations of the degradation of spent form in the presence of groundwater at the candidate Mountain, Nevada repository have been carried out to predict elemental concentrations in solution and to potential radionuclide-bearing precipitates.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

CHEMISTRY: groundwater, geology.

Ross, J.D.

Atomic Energy of Canada Limited.
GEOCHEMISTRY OF DISSOLVED NOBLE AND ATMOSPHERIC GASE DIVERSE PLUTONIC ENVIRONMENTS IN THE PRECAMBRIAN SHI CANADA.

Applied Geochemistry. Jan-Feb. 1987. V. 2(1) p .136

87/01/00 Abstract only.

CHEMISTRY: geology.

Curtis, D.B.; Cappis, J.H.; errin, R.E.; Rokop, D.J. National Lab., NM).

govt

Argonne National Lab. Il (USA).

GEOCHEMISTRY OF NATURAL TECHNETIUM AND PLUTONIUM. P. 735-736. Scientific Basis for Nuclear Waste Manag DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Technetium and plutonium in unprocessed nuclear reac are major concerns with regard to their containment geologic environment. Both nuclides have long half-l therefore, they will exist long after engineered bar considered reliable. CHEMISTRY:

Von Damm, K.L.; Johnson, K.O.

govt

Oak Ridge National Lab. TN (USA).

GEOCHEMÍSTRY OF SHALE GROUNDWATÉRS: RESULTS OF PRELI LABORATORY LEACHING EXPERIMENTS.

September 1987, 34 p.

87/09/00

Twelve shales were reacted with distilled water at 2 1000C; the composition of the waters and the minerol determined before and after reaction. CHEMISTRY: groundwater, shale.

Kerrisk, J.F.

govt

Los Alamos National Lab. NM (USA).
GROUNDWATER CHEMISTRY AT YUCCA MOUNTAIN, NEVADA, AND

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

February 1987. 124 p. 87/02/00

The chemistry of groundwater at Yucca Mountain and v been reviewed and compared with the chemistry of wat Nevada test site and surrounding areas.

CHEMISTRY: groundwater.

Hayward, P.J.; Vance, E.R.; Cann, C.D.; George, I.M. govt

Atomic Energy of Canada Limited.
INFLUENCE OF HEAT TREATMENT AND REDOX CONDITIONS ON

CRYSTALLIZATION OF TITANOSILICATE GLASS-CERAMICS. 8 p. (1986). Reprinted from Advances in Ceramics 20: Waste Management II, p. 215-222, 1986.

86/00/00

CHEMISTRY: glass.

Lang, H.; Moser, H. (Gesellschaft fuer Strahlen und Umweltforschung M.B.H. Muenchen, Neuherberg, Germany fuer Hydrologie)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

INTERPRETATION OF SORPTION-DESORPTION BEHAVIOR OF RAST2+. Cs+ AND I- BY MEANS OF ISOTHERMS.

P. 42. Chemistry and Migration Behavior of Actinides

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only. CHEMISTRY: radionuclide migration.

Bibler, J.P.; Wallace, R.M.

Du Pont de Nemours (E.I.) and Co., Aiken, SC (USA). ION EXCHANGE PROCESSES FOR CLEAN-UP OF DILUTE WASTE THE F/H EFFLUENT TREATMENT FACILITY AT THE SAVANNAH

1987. 8 p. 87/00/00

The F/H effluent treatment facility will treat dilut streams currently diverted to seepage basins at the River Plant. In November 1988, the seepage basins ar to be retired and the facility will process the stre remove toxic and radioactive species before they rea environment.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

CHEMISTRY:

Inoue, Y.; Yamazaki, H. (Tohoku Univ., Sendai, Japan Engineering) acad

ION-EXCHANGE PROPERTY AND THERMAL STABILITY OF HYDRO OXIDE ION ECHANGERS. J. Nucl. Sci. Technol. Tokyo. June 1987. V.24(6) P.4 87/06/00 Ion-exchange property and thermal stability were stu synthetic hydrous metal oxides from the viewpoint of applicability for the processing of liquid radioacti CHEMISTRY: reprocessing.

Runnells, D.D.; Lindberg, R.D.; Kempton, J.H. (Univ. Boulder) .

Bates, J.K.; Seefeldt, W.B. (eds.).

acad

Argonne National Lab. Il (USA). IRREVERSIBILITY OF SE(VI)/SE(IV) REDOC COUPLE IN SYN BASALTIC GROUNDWATER AT 250C AND 750C.

P. 723-733. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Synthetic basaltic ground water was spiked with diff of high-purity sodium selenate and sodium selenite, ratios of aqueous SeO42- to SeO32- from 2100/1 to 1/ temperatures of 250C and 750C.

CHEMISTRY: groundwater.

Vance, E.R.; Gascoyne, M.

govt Atomic Energy of Canada Limited

ISOTOPIC DIŠĒQUILIBRIUM EFFECTS IN LEACHING OF NATUR

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE AND THORIANITE. Reprinted from Chemical Geology (1986) 55:361-373. 86/00/00

CHEMISTRY: leaching.

AUTHOR

Brodda, B.G.; Merz, E.R. (Kerforschungsanlage Juelic Germany, F.R. Inst. fuer Chemische Technolgie der Nu Entsorqung)

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

(Belgium).
LEACHABILITY OF ACTINIDES AND FISSION PRODUCTS FROM FUEL. (CS, SB, EU, ZR, RU, NP, PU, CU).

P. 51. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only.

CHEMISTRY: leaching.

Kalin, M. acad/govt

University of Toronto. (Canada). LONG-TERM ECOLOGICAL BEHAVIOUR OF ABANDONED URANIUM 2. GROWTHER PATTERNS OF INDIGENOUS VEGETATION ON TER SEMI-AQUATIC AREAS. (EPS 3/HA/2).

Ottawa. 1984. 98 p.

84/00/00

CHEMISTRY: ecological impacts.

Crowe, M.C.; Greedan, J.E.; Garrett, J.D.; Burke, N. E.R.; George, I.M.

govt

Atomic Energy of Canada Limited.

MELT-GROWN SHENE (CATISIO5) CRYSTALS. 2 p. (1986). Reprinted from Journal of Materials Sci (1986) 5:979-980.

86/00/00

CHEMISTRY:

Finnegan, D.L.; Bryant, E.A.

govt Los Alamos National Lab. NM (USA).

METHODS FOR OBTAINING SORPTION DATA FROM URANIUM-SER DISEQUILIBRIA.

December 1987. 22 p.

87/12/00

Two possible methods have been identified for obtain retardation factors from measurements of uranium-ser disequilibria at Yucca Mountain. The first method wo

of the enhanced 234U/238U ratio in groundwater to designature for exchangable uranium sorbed on the rock

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT exchangable uranium would be leached and assayed. The method would use the ratio of 222Rn to 234 U in solution rected for weathering, to infer the retardation puranium. Similar methods could be applied to theorized to the redium.

CHEMISTRY: groundwater.

Kim, J.I.; Buckau, G.; Klenze, R. (Technische Univ.
Garching, Germany. F.R., Inst. Fuer Radiochemie); Co
(CEC); Capman, N.B. (BGS).

Commission of the European Communities, Luxembourg. NATURAL COLLOIDS AND GENERATION OF ACTINIDE PSEUDOCG GROUNDWATER.

P. 289-299. Natural Analogues in Radioactive Waste I Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham ar 1987. 506 p. Radioactive Waste Management Series. 87/04/00

Natural colloids in the Gorleben aquifer systems have investigated as for their chemical composition, quarand size distribution.

CHEMISTRY: groundwater.

Sheard, J.W.; Swanson, S.; Godwin, B.C. govt

Saskatchewan Research Council.; University of Saskat (Canada).

NATURAL URANIUM SERIES RADIONUCLIDES IN THE UPLAND V NORTHERN SASKATCHEWAN AND ADJACENT NORTHWEST TERRITO SRC Technical Report no. 217. 1988. 88/00/00

The purpose of this study was to obtain extensive dalbaseline concentrations of uranium series radionucli vegetation of northern Saskatchewan and adjacent Nor Territories.

| CHEMISTRY:

NFW 2.2-41-1

Walker, J.R.; Leneveu, D.M.
govt
Atomic Energy of Canada Limited.
NONLINEAR CHEMICAL SORPTION ISOTHERMS IN THE ASSESSM
NUCLEAR FUEL WASTE DISPOSAL.
1987. 48 p.
87/00/00

CHEMISTRY:

AUTHOR TYPE ORGANIZATION TITLE

Wilkins, J.D. govt

PUBLISH DATE ABSTRACT ÚKAEA Atomic Energy Research Establishment, Harwell. NOTES ON 'NEAR FIELD CHEMISTRY OF RADIOACTIVE WASTE MEETING HELD AT HARWELL ON 26TH/27TH FEBRUARY 1986. Mar 1987. 13 p. 87/03/00

KEYWORDS LOCATION REFERENCE The report summarises presentations made at a semina Field Chemistry of Radioactive Waste Disposal". An ebibliography is included.

AUTHOR

Sunder, S.; Shoesmith, D.W.; Johnson, L.H.; Wallace, Bailey, M.G.; Snaglewski, A.P. (Atomic Energy of Can Pinawa, Manitoba).
Bates, J.K.; Seefeldt, W.B. (eds.).

TYPE ORGANIZATION TITLE

govt Argonne National Lab. Il (USA).

CHEMISTRY: waste management.

PUBLISH

OXÍDATION OF CANDU FUEL BY THÉ PRODUCTS OF THE ALPHA OF GROUNDWATER.

DATE ABSTRACT P. 103-113. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

KEYWORDS LOCATION The oxidation of CANDU fuel by the products of alpha of water is being investigated using x-ray photoelec spectroscopy and electrochemical techniques.

REFERENCE

CHEMISTRY: groundwater.

AUTHOR TYPE ORGANIZATION

govt

TITLE

Atomic Energy of Canada Limited.
OXIDATION OF CANDU UO2 FUEL BY ALPHA-RADIOLYSIS PROD WATER.

Shoesmith, D.W.; Sunder, S.; Johnson, L.H.; Bailey,

PUBLISH

8 p. (1985). Reprinted from Materials Research Socie Proceedings 50, Scientific Basis for Nuclear Waste M IX, p. 309-316, 1985. 85/00/00

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

CHEMISTRY:

AUTHOR

Pusch, R. (Swedish Geological Co., Lund). Bates, J.K.; Seefeldt, W.B. (eds.).

TYPE ORGANIZATION TITLE

PUBLISH

Argonne National Lab. Il (USA).
PERMANENT CRYSTAL LATTICE CONTRACTION, A PRIMARY MEC
THERMALLY INDUCED ALTERATION OF NA BENTONITE. P. 791-802. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

87/00/00

The basic process in thermal transformation of smect hydrous mica is generally thought to be a lattice cl caused by partial replacement of tetrahedral silica CHEMISTRY: thermodynamics.

Aubert, B.

Societe Generale pour les Techniques Nouvelles,

St.-Quetin-en-Yvelines, (France).
PREPARATION PROCESS OF A BOROSILICATE GLASS CONTAIN]

WASTES. (in French) 9 October 1987; 8 April 1986. 25 p.

An inactive borosilicate matrix is prepared by mixir oxide gel a concentrated aqueous solution of a boror and a solution of vitrificating agent. To obtain a colution which is heat treated, nuclear wastes are a borosilicate glass containing the wastes is obtained CHEMISTRY: glass, containment.

Laske, D. (Zurich, Switzerland); Doehring, L. (Hette Switzerland)

Gesellschaft zur Foerderung der Industrieorietierten den Schweiz. Hochschulen und Weiteren Institutionen, (Switzerland).
PROCEDURE FOR IMPROVEMENT OF THE STABILITY OF SOLIDI

RADIOACTIVE ION-EXCHANGE RESIN PARTICLES. (in German 31 March 1988; 12 Novemeber 1984. 7 p.

88/03/31 Shrinkage of the resin particles can be accelerated treatment. The resulting matrix containing the treat ion-exchange resin particles has improved resistance which is retained even following dry out and subsequ immersion.

CHEMISTRY: thermodynamics.

Hayward, P.J.; Tait, J.C.; George, I.M.; Carmichael,

TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR

Atomic Energy of Canada Limited. PROGRESS IN DEVELOPMENT OF A SOURCE TERM FOR SPHENE DISSOLUTION UNDER VAULT CONDITIONS. 7 p. (1986). Reprinted from Advances in Ceramics 20: Waste Management II, p. 241-247, 1986. 86/00/00

CHEMISTRY: glass.

Saunders, P.A.H. (UKAEA Atomic Energy Research Estab Harwell); Wilkins, J.D. (UKAEA Atomic Energy Research Estab Energy Research Est Establishment, Harwell).

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

CHMBA RADIOACTIVE WASTE DISPOSAL: CHEMICAL CONTROL. Chem. Br. (May 1987). V. 23(5) P. 448-452, 458.

87/05/00

Recent work at Harwell and elsewhere has shown that in the immediate surroundings of radioactive waste c an important barrier to migration and a large degree protection. CHEMISTRY:

Kim, J.I.; Lierse, C.; Beppelmann, K.; Magirius, S.
Radiochemie, Garching, West Germany).
Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA).

RADIOLYTICALLY INDUCED OXIDATION REACTIONS OF ACTINI

CONCENTRATED SALT SOLUTIONS.

P. 603-612. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

The autoradiolytic oxidation of Pu (IV) and Am (III) investigated in saline solution of different NaCl concentrations, pH and specific alpha-activities. CHEMISTRY: salt.

Bidoglio, G.; Tanet, G.; Plano, A. de; Lazzari, G.P. of the European Communities, Ispara (Italy). Joint R Centre).

assoc **JRNCD**

RADIONUCLIDE CHEMICAL SPECIES DETERMINATION IN WASTE STUDIES.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE J. Radioanal. Nucl. Chem. - Articles. (Mar 1987) 110 87/03/00 The bio-geochemical processes of actinides potential to the environment from nuclear waste deposits are m

determined by their chemical form. CHEMISTRY: radionuclide migration.

Hermens, R.A.; Kendall, J.B.; Partridge, J.A.

RECOVERY OF URANIUM FROM SOLUTIONS.

26 May 1987. VP. 87/05/26

A process is described of separating uranium from a solution derived from the ammonium diuranate process converting UF/sub 6/ to UO/sub 2/ and containing U(V ion, and ammonium ion, which comprises adding sodium hydrosulfite to the solution and recovering a precip containing fluorine, sodium, ammonium and U(IV). CHEMISTRY:

AUTHOR

TYPE ORGANIZATION

TTTLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION Lanza, F.; Parnisari, E. (Commission of the Europear Ispra, Italy. Joint Research Centre)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

RELEASE AND DIFFUSION IN CLAY OF ELEMENTS LEACHED FR BOROSILICATE GLASS.

P. 52. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only.

CHEMISTRY: leaching.

Vandergraaf, T.T.

govt
Atomic Energy of Canada Limited.
REVIEW OF THE ROLE OF NUCLEAR ANALYTICAL CHEMISTRY I
CANADIAN NUCLEAR FUEL WASTE MANAGEMENT PROGRAM.

11 p. (1987). Reprinted from Journal of Radioanalyti Nuclear Chemistry (1986) 110(1):79-89.

86/00/00

CHEMISTRY:

CHEMISTRY:

REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

Vandergraaf, T.T. (Atomic Energy of Canada Ltd., Pin Manitoba. Whiteshell Nuclear Research Establishment) govt JRNCD.

REVIEW OF THE ROLE OF NUCLEAR ANALYTICAL CHEMISTRY I CANADIAN NUCLEAR FUEL WASTE MANAGEMENT PROGRAM. J. Radioanal. Nucl. Chem. - Articles (Mar 1987) 110(1 87/03/00

The Canadian Nuclear Fuel Waste Management Program i multifaceted and requires data from a large number o disciplines, such as geology, geochemistry, hydrogeo and mining engineering, chemistry, solid state scien environmental science, and meteorology. Examples of application of nuclear analytical chemistry, including radiochemical separation and instrumental neutron ac analysis are discussed.

Carnahan, C.L. (Lawrence Berkeley Lab., CA). Bates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il (USA). SIMULATION OF URANIUM TRANSPORT WITH VARIABLE TEMPER OXIDATION POTENTIAL: THE COMPUTER PROGRAM THCC. P. 713-721. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

A simulator of reactive chemical transport has been with the capabilities of treating variable temperatu

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT variable oxidation potentials within a single simula examples illustrate how inclusion of variable temper oxidation potential in numerical simulators can enha understanding of the chemical mechanisms affecting m multivalent waste elements.

CHEMISTRY: analytical techniques.

Delegard, C.H. (Rockwell Hanford Operations, Richlan priv RAACA.

SOLUBILITY OF PUO2. XH20 IN ALKALINE HANFORD HIGH-LEV SOLUTION.

Radiochim. Acta. (1987). V. 41(1) p. 11-21. 87/00/00

The solubility of Pu(IV) hydrous oxide, PuO2.XH2O in air-equilibrated synthetic Hanford high-level waste was determined as a function of NaOH, NaAl (OH) 4, NaN

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE and Na2CO3 concentrations. The solubility was found with the square of the NaOH chemical activity. CHEMISTRY:

Pollard, P.M.; McMillan, J.W.; Phillips, G.; Thomaso Ewart, F.T. (UKAEA Atomic Energy Research Establishm Harwell); Liezers, M. (Manchester Univ, UK) acad/assoc

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

SOME ACTINIDE SPECIATION USING LASER INDUCED PHOTOAC SPECTROSCOPY.

P. 64. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only CHEMISTRY: waste characterization.

Hall, A.R. (UKAEA Atomic Energy Research Establishme Chemistry Div.) (ed.)

assoc Commission of the European Communities, Brussels, STUDIES OF SURFACE MORPHOLOGY AND CHEMICAL COMPOSITI SUB-SURFACE REGIONS.

P. 68-172. Testing and Evaluation of Solidified High Radioactive Waste. London, UK. Graham and Trotman Lt p. Radioactive Waste Management Series.

87/00/00 The aim of the research work at the HMI is to produc calculate the activity release from waste products u attack of salt solutions such as sodium chloride and brines. The programme comprises the investigation of simulated inactive and highly radioactive wastes. CHEMISTRY: salt, geology.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Schreiber, H.D.; Kozak, S.J.; Leonhard, P.G.; McManu (Virginia Military Inst., Lexington. Center for Glas

SULFUR CHEMISTRY IN A BOROSILICATE MELT. PT. 1. REDC AND SOLUBILITY.

Glastech. Ber. 1987. V.60(12) p.389-398.

87/00/00

The solubility and redox state of sulfur have been d an alkali borosilicate melt representative of those

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

compositions under consideration for nuclear waste immobilization. CHEMISTRY: glass.

Righetto, L.; Marcandalli, B.; Bellobono, I.R. (Mila Italy); Bidoglio, G. (Commission of the European Com Ispra, Italy)

acad/assoc

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium). SURFACE INTERACTIONS OF ACTINIDES WITH INORGANIC COL

P. 109. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only.

CHEMISTRY:

Pring, A.

Cambridge Univ. (UK) Thesis (Ph.D.).
THE CRYSTAL CHEMISTRY OF SOME BARIUM AND CAESIUM OXI

APPLICATION IN RADWASTE DISPOSAL.

1987. 210 p. 87/00/00

The problem of the disposal of radioactive waste pro the recycling of nuclear fuel is introduced and the problems associated with the immobilization of radio caesium and strontium are discussed.

CHEMISTRY: reprocessing.

Ewart, F.T.; McMillan, J.W.; Thomason, H.P. (UKAEA H Chemistry Div.); Liezers, M.; Pollard, P.M. (Manches UK. Inst. of Science and Technology)

acad
United Kingdom Nirex, Ltd.; UKAEA Harwell Lab. Chemi
Department of the Environment, London, (UK).

Department of the Environment, London, (UK).
THE DEVELOPMENT OF A LASER-INDUCED PHOTOACOUSTIC FAC
ACTINIDE SPECIATION.

Febuary 1988. 55 p.

88/02/00

A laser induced photoacoustic spectroscopy facility developed at Harwell to measure actinide species in with the minimal disturbance of the species equilibr CHEMISTRY: radionuclide migration.

REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT Harvey, K.B.; Boase, C.A. govt

Atomic Energy of Canada Limited.

THE DISSOLUTION OF A GLASS HAVING AN ADHERENT INSOLU LAYER.

10 p. (1986). Reprinted from Advances in Ceramics 20 Waste Management II, p. 495-504, 1986. 86/00/00

CHEMISTRY: dissolution, glass.

Harvey, K.B.; Boase, C.A.

govt

Atomic Energy of Canada Limited.

THE DISSOLUTION OF A SIMPLE GLASS. PART 2. BEHAVIOUR GLASS/WATER SYSTEMS.

6 p. (1987). Reprinted from Physics and Chemistry of (1987) 28(1):11-16.

87/00/00

CHEMISTRY: glass, dissolution.

Garisto, N.C.; Garisto, F.

govt.

Atomic Energy of Canada Limited.
THE DISSOLUTION OF UO2: A THERMODYNAMIC APPROACH.
9 p. (1986). Reprinted from Nuclear and Chemical Was
(1986) 6:203-211.

86/00/00

CHEMISTRY: thermodynamics, dissolution.

Beaven, G.W.; Bodsworth, K.; Cross, J.E.; Hooper, E.

priv/govt

UKAEA Harwell Lab. Chemistry Div.; Department of the

London (UK).

THE EFFECT OF EDTA AND CITRATE ON ALPHA DECONTAMINAT PROCESSES.

July 1987. 49 p.

87/07/00

The results of a study investigating the effect of t complexants EDTA and Citrate on the actinide deconta achieved by precipitation and ultrafiltration treatm

processes are presented. CHEMISTRY:

AUTHOR TYPE ORGANIZATION TITLE

Burnway, S.G.; Johnson, D.I.; Philips, D.C.; Brownsw govt Ŭkaea Harwell Lab. (UK).

PUBLISH DATE ABSTRACT THE EFFECTS OF GAMMA IRRADIATION ON LEACHING OF 1370 ORGANIC MATRIX WASTEFORMS.

Sept. 987. 29 p. 87/09/00

The effects of gamma irradiation on the leaching beh 137CS in organic matrix wasteforms has been studied. CHEMISTRY: radionuclide migration.

KEYWORDS LOCATION REFERENCE

AUTHOR

Kaczvinsky, J.R. Jr.; Friz, J.S. (Iowa State Univ. of Tech., Ames, USA. Dept. of Chemistry); Walker, D.D.; (Savannah River Ecology Lab., Aiken, SC) govt/acad

TYPE ORGANIZATION TITLE

THE EFFECTS OF REACTION CONDITIONS ON POROUS CHELATI DESIGNED FOR THE DECONTAMINATION OF NUCLEAR WASTE. J. Radioanal. Nucl. Chem. - Articles. November 1987.

PUBLISH DATE

P.63-75 87/11/00

ABSTRACT

The effect of a number of synthetic variables on the of resorcinol-formaldehyde-iminodiacetic acid resins and 90Sr was determined.

KEYWORDS LOCATION REFERENCE CHEMISTRY:

AUTHOR TYPE ORGANIZATION Newton, T.W.; Hobart, D.E.; Palmer, P.D. govt

TITLE

Los Alamos National Lab. NM (USA).

PUBLISH DATE ABSTRACT THE FORMATION OF PU(IV)-COLLOID BY THE ALPHA-REDUCTI OR PU(VI) IN AQUEOUS SÓLUTIONS. 1987. 23 P.

87/00/00 The effects of alpha-particle self-irradiation have investigated in solutions of 239pu in the pH range f 2.2. The initial solutions contained PU(IV), PU(V), PU(VI) or varios mixtures of these composition versu determined for periods up to 618 days.

KEYWORDS LOCATION REFERENCE CHEMISTRY:

AUTHOR

Oscarson, D.W.; Watson, R.L.; Miller, H.G.

TYPE ORGANIZATION TITLE

govt Atomic Energy of Canada Limited. THE INTERACTION OF TRACE LEVELS OF CESIUM WITH MONTH AND ILLITIC CLAYS.

PUBLISH DATE ABSTRACT 11 p. (1987). Reprinted from Applied Clay Science (1 87/00/00

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE CHEMISTRY:

Bruno, J.; Casa, I.; Puigdomenech, I. (Royal Inst. o Stockholm, Sweden)

acad

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium). THE KINETICS OF UO2(S) DISSOLUTION UNDER REDUCING CO

P. 78-79. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987.

87/00/00

Published in summary form only.

CHEMISTRY:

acad

THE SOLUBILITY OF ACTINIDES IN THE NEAR FIELD. Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 701. 85/09/00

CHEMISTRY:

Meyer, R.E.; Arnold, W.D.; Case, F.I.

govt

Oak Ridge National Lab. TN (USA).; Nuclear Regulator

Washington DC (USA).
THE SOLUBILITY OF ELECTRODEPOSITED TC(IV) OXIDES.

July 1987. 20 P. 87/07/00 Solubilities of electrodeposited TC(IV) oxides have determined in solutions of NaCl, Hcl, and synthetic in the pH range 0 - 10. The results are described.

CHEMISTRY:

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Morgan, R.D.; Pryke, D.C.; Rees, J.H.

UKAEA Harwell Lab. Chemistry Div.; Department of the London (UK).

THE SORPTION OF ACTINIDES ON CANDIDATE MATERIALS FOR REPOSITORIES.

November 1987. 33 p.

87/11/00

The sorptive behavior of the actinides uranium, nept plutonium and americium has been investigated under air-saturated conditions on a number of candidate ne materials by batch sorption experiments. CHEMISTRY:

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

> **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Lorenzini, E.; Spiga, M.; Corticelli, M.A. (Bolgna U acad

THERMAL ANALYSIS OF THE HEAT EXCHANGER FOR A SPENT N STORAGE POOL.

Ann. Nucl. Energy. 1987. V.14(9) P. 499-503. 87/00/00

A numerical solution is provided to predict the tran temperature distribution of both fluids in the u-tub exchanger of a spent nuclear fuel storage fuel. CHEMISTRY: thermodynamics.

Grantham, L.F.

THERMAL CONVERSION OF WASTES.

26 May 1987. VP. 87/05/26

A process is described for the thermal conversion of radioactive waste material. CHEMISTRY: thermodynamics.

Rard, J.A.

govt

Lawrence Livermore National Lab. CA (USA).

THERMODYNAMIC DATA BASES FOR MULTIVALENT ELEMENTS: A

RUTHENIUM. November 1987. 29 p.

87/11/00
Potential pH diagrams of the predominance regions ch significantly with concentration due to

polymerization/depolymerization reactions. Failure t

the known chemistry of ruthenium can yield large dif predicted solubilities. CHEMISTRY:

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Silva, R.J. (Lawrence Livermore National Lab., CA)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

THERMODYNAMICS OF HYDROLYSIS AND CARBONATE COMPLEXAT

OF THE TRANSURANIUM ELEMENTS.

P. 106. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p.

Published in summary form only.

CHEMISTRY: thermodynamics.

acad

TRANSPORT OF CHEMICALS IN THE GROUNDWATER SYSTEM AT

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

WELDON SPRING, MISSOURI. Colorado State University. 8TH Geohydro Waste Mgt. S (USA). Feb. 5-7, 1986. p. 457-467.

86/02/00

CHEMISTRY: groundwater, transport.

AUTHOR TYPE

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Dejonghe, P.; Blommaert, W.; Van de Voorde, N. acad

TREATMENT AND CONDITIONING OF AQUEOUS EFFLUENTS FROM OPTIMIZATION IN VOLUME REDUCTION AND INSOLUBILIZATIO Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 125-128. 87/00/00

Evaporator bottoms resulting from the treatment of a effluents from PWR's and BWR's can be treated by che and the resulting sludges can be further conditioned cementation, bituminization or high temperature slag CHEMISTRY: reprocessing.

|Ballereau, P.

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

CEA Centre D'Etudes de Bruyeres-le-Chatel, 91, (Franc TRITIUM CONVERSION IN TRITIATED WATER: STUDY OF THE REACTIONS: A LITERATURE SURVEY. (in French)

October 1987. 115 p.

87/10/00

According to ICRP Publication 30, hazards due to mol tritium are not significant in comparison to hazards oxidated form: tritiated water.

CHEMISTRY:

Togerson, D.F.

govt

Atomic Energy of Canada Limited.

UNDERLYING CHEMISTRY RESEARCH FOR THE NUCLEAR FUEL W MANAGEMENT PROGRAM.

AECL - 7786. 84/00/00

CHEMISTRY:

Hinsch, H.; Kallmerten, W. (Gesellschaft fuer Strahl Umweltforschung M.B.H. Muenchen, Braunschweig, Germa Inst. fuer Tieflagerung).

Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellschaft E.V., Bonn, Germany, (F.R.). URANIUM AND CESIUM LEACHING FROM LARGE SAMPLES IN TH

(in German) P. 441-444. Annual Meeting on Nuclear Technology '87 DATE ABSTRACT KEYWORDS LOCATION REFERENCE

87/00/00 CHEMISTRY: leaching.

829 p.

AUTHOR TYPE ORGANIZATION TITLE

Chambre, P.L.; Kang, C.H.; Lee, W.W.L.; Pigford, T.H.

Proceedings. Session 4: Fuel Cycle and Waste Process

PUBLISH DATE ABSTRACT

Lawrence Berkely Lab. CA (USA). WASTE DISSOLUTION WITH CHEMICAL REACTION, DIFFUSION ADVECTION.

June 1987. 7 p.

87/06/00 This paper extends the mass-transfer analysis to inc effect of advective transport in predicting the stea dissolution rate, with a chemical-reaction-rate boun

KEYWORDS LOCATION REFERENCE condition at the surface of a waste form of arbitrar CHEMISTRY: groundwater.

AUTHOR TYPE ORGANIZATION TITLE

Heiken, J.H., (ed.). govt

Los Alamos National Lab. NM (USA).

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE WORKSHOP ON FUNDAMENTAL GEOCHEMISTRY NEEDS FOR NUCLE ISOLATION.

1985. 197 P. 85/00/00

CHEMISTRY: containment.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS Yeh, G.T.

govt

Oak Ridge National Lab. NM (USA). 3DFEMWATER: A THREE-DIMENSIONAL FINITE ELEMENT MODEL FLOW THROUGH SATURATED-UNSATURATED MEDIA.

Aug. 1987. 317 p.

87/08/00

The 3DFEMWATER model is designed to treat heterogene anisotropic media consisting of as many geologic for desired. The model is verified with analytical solut other numerical models for three examples. GEOLOGY: modelling.

priv/govt

Ontario Hydro. (Canada). A COMPARATIVE STUDY OF CLAY-TYPE GROUTING MATERIALS.

1984. 39 p. 84/00/00

GEOLOGY: clay.

Li, L.S.; Sun, N.Z.; Yeh, W.W.G.; Lu, A.H.

acad/priv

California Univ., Los Angeles (USA); Rockwell Intern Corp., Richland, WA (USA).
A COMPARATIVE STUDY OF SENSITIVITY COEFFICIENT CALCU

METHODS IN GROUNDWATER FLOW.

Jan 1987. 37 p.

87/01/00

Sensitivity coeffecients can be calculated by (1) th coefficient method, (2) the sensitivity equation met the variational method. These three methods are summ both steady and unsteady state flows in a two-dimens inhomogenous, confined aquifer.

GEOLOGY: groundwater.

Taylor, S.R.; Moltyaner, G.L.; Howard, K.W.F.; Kille govt

Atomic Energy of Canada Limited. A COMPARISON OF FIELD AND LABORATORY METHODS FOR DET

CONTAMINANT FLOW PARAMETERS.

10 p. (1987). Reprinted from Ground Water (1987) 25(87/00/00

GEOLOGY: groundwater.

LOCATION REFERENCE

AUTHOR

|Bastian, R.J.; Voss, C.F.; Apted, M.J.; Shotwell, L.

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

priv

Pacific Northwest Lab. WA (USA). A COUPLED MECHANICAL-HYDROLOGICAL INVESTIGATION OF C ROCKS: ANNUAL TECHNICAL PROGRESS REPORT, PROPOSED TE AND PRELIMINARY RESULTS.

February 1988. 62 p.

88/02/00

This report reviews the fracture flow behavior in ro being performed at the Pacific Northwest Lab. The st objective is to determine the feasibility of predict mechanical-hydrological behavior of natural rock fra accurately characterizing fracture surface topograph mineralization.

GEOLOGY: fractures, hydrology.

Tomasko, D.; Jensen, A.L.

govt Sandia National Lab. NM (USA).

A LINEAR FLOW INTERPRETATION OF THE H-3 MULTIWELL PU CONDUCTED AT THE WASTE ISOLATION PILOT PLANT SITE. July 1987. 33 p. 87/07/00

Unlike previous interpretations of this test that us porosity radial flow model, this interpretation is b linear flow process. Several analytical techniques a in this paper on the titled subject.

GEOLOGY: analytical techniques.

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Bauer, S.J.; Conley, C.H. govt

Sandia National Lab. NM (USA).

A PROPOSED METHOD FOR PREDICTING ROCK-MASS DEFORMABI

COMPLIANT JOINT MODEL.

Rock Mechanics: Proceedings of the 28th US Symposium

1987. p. 691-698. 87/00/00

A method to predict the stess strain response of a f

mass is presented.

GEOLOGY: analytical techniques.

| Hunter, R.L. (Sandia National Labs., Albuquerque, NM

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS

Chaturvedi, R.L. (ed.).

govt New Mexico Health and Environment Dept., Santa Fe, (

Environmental Evaluation Group.
A REGIONAL WATER BALANCE FOR THE WIPP SITE AND SURRO P. 58-70. The Rustler Formation at the WIPP Site: Re Workshop on the Geology and Hydrology of the Rustler as it Relates to the WIPP project. Febuary 1987.

87/02/00

A water balance or budget is developed as an account components of a closed hydrologic system. A general for a closed hydrologic system is presented.

GEOLOGY: hydrology.

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Doughty, C.; Pruess, K. (Lawrence Berkeley Lab, CA)

A SEMIANALYTICAL SOLUTION FOR HEAT-PIPE EFFECTS NEAR NUCLEAR WASTE PACKAGES BURIED IN PARTIALLY SATURATED

Int. J. Heat Mass Transfer. Jan 1988. V. 31(1) P.79-88/01/00

The emplacement of a strong heat source, such as a h nuclear waste package, in a partially saturated perm will give rise to the development of a heat pipe. Th paper analyzes a simplified version of this problem steady state solution, for radial geometry. GEOLOGY: thermodynamics.

Ratigan, J.L.

RE/SPEC, Inc., Rapid City, SD; Battelle Memorial Ins OH. Office of Nuclear Waste Isolation.

A SENSITIVITY STUDY OF BRINE TRANSPORT INTO A BOREHO A COMMERCIAL HIGH-LEVEL WASTES CANISTER. (BRINE INCL THERMAL GRADIENT)

February 1987. 82 p.

87/02/00

A set of coupled field evaluations is developed for brine in natural rock salt. Transport of brine inclu individual crystals is considered to be thermally dr whereas transport along crystal interfaces or grain is considered to be pressure driven.

GEOLOGY: containment.

|Byers, C.D.; Jercinovic, M.J.; Ewing, R.C.

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

govt/acad Argonne National Lab., IL; New Mexico Univ., Albuque Geology; Nuclear Regulatory Commission, Washington, of Nuclear Regulatory Research.
A STUDY OF NATURAL GLASS ANALOGUES AS APPLIED TO ALT

NUCLEAR WASTE GLASS.

February 1987. 163 p.

87/02/00

A two-part study was undertaken on the alteration of basalt and nuclear waste glasses. In the first part, University of New Mexico characterized a wide variet basaltic glasses with respect to reaction products, kinetics, and geologic history. GEOLOGY: glass.

|Heinrich, W.F.

govt

Atomic Energy of Canada Limited.
A TRANSFORMATION FOR PREDICTING MECHANICAL CHANGES R TIME-DEPENDENT MICROCRACKING IN PLUTONIC ROCK.

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE 1987. 12 p. 87/00/00

GEOLOGY: granite.

AUTHOR TYPE ORGANIZATION TITLE

Roest, J.P assoc

Commission of the European Communities, Luxembourg. ACOUSTIC P-WAVE VELOCITY MEASUREMENTS OF CATACLASTIC ROCK SALT.

1987. 51 p. 87/00/00

Model tests are carried out, in order to investigate cataclastic thermo-mechanical behaviour of rock salt simulated repository borehole.

GEOLOGY: salt.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

Torstenfelt, B. (Chalmers Univ. of Tech., Goeteborg, Rundberg, R.C. (Los Alamos National Lab., NM)

govt/acad Technische Univ. Muenchen, Garching, Germany, F.R.;

the European Communities, Brussels, (Belgium). ACTINIDE SORPTION OF GRANITES AND MINERALS AS A FUNC

AND COLLOIDS/PSEUDOCOLLOIDS. P. 22-23. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

PUBLISH

TITLE

DATE ABSTRACT KEYWORDS LOCATION REFERENCE 87/00/00 Published in summary form only. GEOLOGY: radionuclide migration.

Milton, G.M.; Brown, R.M.

Atomic Energy of Canada Limited.
ADSORPTION OF URANIUM FROM GROUNDWATER BY COMMON FRA SECONDARY MINERALS.

8 p. (1987). Reprinted from Canadian Journal of Eart
(1987) 24:1321-1328.

87/00/00

GEOLOGY: groundwater.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Fisher, R.S. (Univ. of Texas, Austin). acad

Pacific Northwest Lab. WA (USA).

AMOUNT AND NATURE OF OCCLUDED WATER IN BEDDED SALT, BASIN, TEXAS.

Proceedings of Salt Repository Project's Workshop in Migration. March 1987, p. 7-8, Appendix/C.53-C.58. 87/03/00

The quantity and types of fluids within bedded salt the Permian San Andres formation were evaluated at t Bureau of Economic Geology. The amount of water that affected by a high-level nuclear waste repository ca

estimated if the volume of halite, the volume of cla interlayers, and the amount and type of impurity in known.

GEOLOGY: salt, groundwater.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Jensen, E.J.

priv

Pacific Northwest Lab. WA (USA).

AN EVALUATION OF AQUIFER INTERCOMMUNICATION BETWEEN UNCONFINED AND RATTLESNAKE RIDGE AQUIFERS ON THE HAN October 1987. 33 p.

87/10/00

The hydraulic head data were used to determine the e by water discharged to the ground from B pond on bot table of the unconfined aquifer and the potentiometr of the confined aquifer.

GEOLOGY: hydrogeology.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Klavetter, E.A.; Peters, R.R.

govt

Sandia National Lab. NM (USA); AN EVALUATION OF THE USE OF MERCURY POROSIMETRY IN C HYDROLOGIC PROPERTIES OF TUFFS FROM YUCCA MOUNTAIN, Mar 1987. 154 p.

87/03/00

The geologic formations in the unsaturated zone at Y Mountain, on and adjacent to the Nevada test site (N currently being studied for consideration as the hos radioactive-waste repository.

GEOLOGY: tuff.

Melnyk, T.W.; Skeet, A.M.M.

govt Atomic Energy of Canada Limited.

AN IMPROVED TECHNIQUE FOR THE DETERMINATION OF ROCK 7 p. (1986). Reprinted from Canadian Journal of Eart (1986) 23:1068-1074.

86/00/00

GEOLOGY: groundwater.

Pickens, J.F.; Grisak, G.E.; Avis, J.D.; Belanger, D Technologies, Inc., Austin, TX) priv

ANALYSIS AND INTERPRETATION OF BOREHOLE HYDRAULIC TE BOREHOLES: PRINCIPLES, MODEL DEVELOPMENT, AND APPLIC Water Resource Res. July 1987. V. 23(7). P. 1341-137 87/07/00

A review of the literature on hydraulic testing and methods, particularily in low-permeability media, in need for a comprehensive hydraulic testing interpret capability.

|GEOLOGY: modelling.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT** govt

ANALYSIS FOR PRELIMINARY EVALUATION OF DISCRETE FRAC LARGE-SCALE PERMEABILITY IN SEDIMENTARY ROCKS. ORNL Report 87-37733/1. May 1987. 54 p. 87/05/00

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS

GEOLOGY:

Zimmerman, R.; Bellman, R.A.; Mann, K.L.

Sandia National Lab. NM (USA).
ANALYSIS OF DRIFT CONVERGENCE PHENOMENA FROM G-TUNNE

MINING EVALUATIONS.

Rock Mechanics: Proceedings of the 28th US Symposium

1987. p. 831-832.

87/00/00

This paper discusses the results of vertical and hor convergence measurements taken during the mining of repository-sized drift in welded tuff in G-tunnel on test site.

GEOLOGY: geologic disposal.

White, S.M.; Tien, C.L. (California Univ., Berkeley. Mechanical Engineering) acad

ANALYSIS OF FLOW CHANNELING NEAR THE WALL IN PACKED Waerme- Stoffuebertrag. 27 July 1987. V. 21(5) P. 29 87/07/00

The phenomenon of flow channeling in packed beds is A closed form solution is obtained from the volume a second-order momentum equation with the no-slip cond wall, using an exponential porosity distribution typ packed beds.

GEOLOGY: groundwater.

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Bauer, S.J.; Holland, J.F. govt

Sandia National Lab. NM (USA).

ANALYSIS OF IN SITU STESS AT YUCCA MOUNTAIN.

Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 707-714.

87/00/00

A method has been developed utilizing far field fini models such that the measured in situ stess state ap reproduced well. The method and results are presente

GEOLOGY: analytical techniques.

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE ABSTRACT Saulnier, G.J.Jr.

priv/govt
Intera Technologies, Inc., Austin, TX; Sandia Nation

Albuquerque, NM (USA).
ANALYSIS OF PUMPING TESTS OF THE CULEBRA DOLOMITE CO
H-11 HYDROPAD AT THE WASTE ISOLATION PILOT PLANT SIT
25 September 1987. 199 p.

87/09/25

The culebra dolomite member of the permian rustler f hydrologically evaluated in a series of pumping test at the H-11 hydropad at the WIPP site.
GEOLOGY: hydrology.

Monastersky, R. media

ANOTHER CONTROVERSY OVER NUCLEAR WASTE SITE. Science News 134:294.

88/11/05

Geoscientists working for the State of Nevada are quaccuracy of federal studies looking at the geologic Yucca Mountain, Nevada - the proposed site for the n first high-level nuclear waste dump. GEOLOGY: siting.

Asmis, H.W.

govt

Atomic Energy of Canada Limited.

ASPECTS OF SEISMIC MECHANISMS RELATED TO VAULT DESIGNED TR-228.

84/00/00

GEOLOGY: design.

Coyle, A.J.

Pacific Northwest Lab. WA (USA). ASSE BRINE MIGRATION AND IN-SITU TESTING STATUS REPO Proceedings of Salt Repository Project's Workshop on Migration. March 1987, p.18

87/03/00
This presentation contains a status report of field conducted in salt mines. Included are ongoing tests salt mine in the Federal Republic of Germany and test at Avery Island in the US.

GEOLOGY: salt.

AUTHOR TYPE ORGANIZATION TITLE

Newton, J.G.; Tanner, J.M.

PUBLISH DATE ABSTRACT priv Lamoreaux (P.E.) and Associates, Inc., Tuscaloosa, A ASSESSMENT OF SUBSIDENCE IN KARST TERRANES AT SELECT EAST TENNESSEE AND COMPARISON WITH A CANDIDATE SITE RIDGE, TENNESSEE: PHASE 2. September 1987. 103 p.

87/09/00

Work in respective areas included assessment of cond related to sinkhole development. Information collect assessed involved geology, hydrogeology, land use, l and linear trends, identification of karst features and inventory of historical sinkhole development and GEOLOGY: siting.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Knauth, P.L. (Arizona State Univ.). acad

Pacific Northwest Lab. WA (USA). ASU TESTING OF WATER IN SALT.

Proceedings of Salt Repository Project's Workshop in Migration. March 1987, p. 11-12, Appendix/C.101-C.10 87/03/00

Stable isotope measurements have been used to determ origin of water leaking into salt mines in the Gulf domes. Water "pockets" are found around the peripher domes and in association with sediment inclusions. GEOLOGY: groundwater, salt.

Linsalata, P.; Eisenbud, M. (New York Univ., USA); F (Rio de Janeiro Univ., Brazil)

Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. BIOGEOCHEMICAL STUDIES OF TE RA, U, TH' AND REE DEPOS DO FERRO: A QUANTITATIVE APPLICATION TO IMPROVE CONF RADIONUCLIDE IMMOBILIZATION PROCESSES.

P. 116-117. Natural Analogues in Radioactive Waste D Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series.

87/04/00

This paper presents the results of a study of the de Brazil undertaken to show that geochemical barriers prevent radionuclides leaving waste repositories.

KEYWORDS LOCATION REFERENCE GEOLOGY: radionuclide migration.

AUTHOR

Coyle, A.J.; Eckert, J.; Kalia, H.

TYPE ORGANIZATION

TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

acad Battelle Memorial Inst., Columbus, OH. Office of Nuc Isolation.

BRINE MIGRATION TEST REPORT: ASSE SALT MINE, FEDERAL

GERMANY: TECHNICAL REPORT. January 1987. 168 p.

87/01/00

This report presents a summary of brine migration te were undertaken at the Asse Mine of the FRG under a US/FRG agreement.

GEOLOGY: groundwater, salt.

Deal, D.E.; Case, J.B.

priv

Westinghouse Electric Corp., Carlsbad, NM (USA). BRINE SAMPLING AND EVALUATION PROGRAM: PHASE 1 REPOR 15 June 1987. 172 p.

87/06/15

This interim report presents preliminary data obtain course of the WIPP brine sampling and evaluation pro investigations focus on the brine present in the nea environment around the WIPP underground workings. GEOLOGY: salt, groundwater.

McTigue, D.F.; Nowak, E.J.

Sandia National Labs. NM (USA). BRINE TRANSPORT STUDIES IN THE BEDDED SALT OF THE WA PILOT PLANT (WIPP).

1987. 10 p.

87/00/00

Brine flow has been measured to unheated boreholes f a few days and to heated holes for two years in the facility. It is suggested that Darcy flow may domina observed influx of brine.

GEOLOGY: salt.

Nimick, F.B.; Schwartz, B.M.

govt

Sandia National Labs. NM (USA).

BULK, THERMAL, AND MECHANICAL PROPERTIES OF THE TOPO

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION MEMBER OF THE PAINTBRUSH TUFF, YUCCA MOUNTAIN, NEVAD September 198. 253 p.

87/09/00

Experimental data on matrix porosity, grain density, expansion, compressive strength, Young's modulus, Po ratio, and axial strain at failure for samples from spring member of the paintbrush tuff are compiled. GEOLOGY: tuff.

Bourke, P.J.

assoc UKAEA Atomic Energy Research Establishment, Harwell. TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE **PUBLISH**

DATE ABSTRACT Div.

CHANNELING OF FLOW THROUGH FRACTURES IN ROCK. May 1987. 11 p.

87/05/00

A method of mapping the channelling of flow in rock formed by contacts between rock faces and of measuri effective aperatures of channels has been developed. GEOLOGY: fractures.

Coulon, H.; Lajudie, A.; Debrabant, P.; Arabek, R.; Andre-Jehan, R. (CNRS, Villeneuve d'Ascq, France).

Argonne National Lab. Il (USA). CHOICE OF FRENCH CLAY AS ENGINEERED BARRIER COMPONEN

DISPOSAL.

P. 813-824. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

Results are presented of physical measurements on ca buffer materials for use in nuclear fuel waste dispo materials being considered as constituent elements o barriers are essentially calcium smectite clays, in swelling clays, coming from fourteen French deposits GEOLOGY: clay.

Morner, Nils-Axel. acad

COMMENTS ON THE SWEDISH FUELLING LICENCE DECISION. Bulletin of the INQUA Neotectonics Commission, No. 8, Stockholm, 1p.

85/00/00

The Swedish government issued fuelling licences for based on conclusions of the KBS-3 report that a safe

geological disposal method for radioactive waste had demonstrated. This report holds that KBS ignored pa neotectonic and structural data that would disprove

GEOLOGY: geologic disposal.

Paleogeophysics and Geodynamics, University of Stock

Stockholm, Sweden

anne

Rancon, D. (CEA Centre D'Etudes Nucleaires de Cadara les Durance, France.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

COMPARATIVE STUDY ON THE BEHAVIOR OF RADIOIODINE IN ACCORDING TO VARIOUS EXPERIMENTAL AND NATURAL CONDIT P. 35. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only.

GEOLOGY:

KEYWORDS LOCATION

REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT Mercer, J.W.

govt

Sandia National Lab. NM (USA).
COMPILATION OF HYDROLOGIC DATA FROM DRILLING THE SAL
CASTILE FORMATIONS NEAR THE WASTE ISOLATION PILOT PL
SOUTHEASTERN NEW MEXICO.

January 1987. 36 p.

87/01/00

This report compiles and evaluates data from tests p the Salado and Castile formations during site charac exclusive of the "Brine Reservoirs" in the Castile. GEOLOGY: groundwater.

Kojima, K.; Ohno, H. (Univ. of Tokyo).

CONNECTION BETWEEN FARFIELD AND NEARFIELD IN RELATIO FRACTURES AND/OR FLOWPATHS FOR THE GEOLOGICAL ISOLAT RADIOACTIVE WASTES.

P. 159-162. Proceedings of the 6th International Con Mechanics. Accord, MA (USA). A.A. Balkema Publishers

The characteristics of fractures and hydrology are d for the radioactive wastes isolation in the mobile b GEOLOGY: fractures, hydrology.

Echegaray, Rogelio; Sarudiansky, Roberto

Consejo Superior Professional de Geologia (Argentina CONSIDERACIONES ACERCA DEL EMPLAZAMIENTO DO UN REPOS NUCLEAR. (in Spanish).

Buenos Aires, March, 1988, 4pp.

88/03/09

The predominent society of geologists in Argentina i opinion that as of March 1987, the construction of t repository could not be justified on the basis of st already carried out. Chief concerns relate to eviden tectonic movement during the Quaternary period and i of seismic instability in the area.

GEOLOGY:

anne

Blasco, H.Corchuelo; Benitez, Alfredo Luis govt

Senate of Argentina.

CONSIDERATIONS IN SUPPORT OF A REQUEST FOR INFORMATI
PLANS FOR A NUCLEAR REPOSITORY IN ARGENTINA

October, 1988, 4pp.

88/10/00
Considerations and background material submitted by of the National Senate requesting full information a Argentinian repository project. Evidence of recent movement in the Gastre area has been ignored by the proponents. Hydrogeological work that has been done

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE preliminary and needs further substantiation. GEOLOGY: hydrogeology.

anne

Patijn, J. (Centre d'etude de L'energie Nucleaire, M acad Commission of the European Communities, Luxembourg. CONTRIBUTION TO HYDROGEOLOGICAL INVESTIGATIONS RELAT DISPOSAL OF RADIOACTIVE WASTES IN DEEP ARGILLACEOUS (in French) 1987. 172 p.

87/00/00
The study deals with the development of a methodolog evaluate the capability of an aquifer system to be u disposal of radioactive wastes in deep argillaceous GEOLOGY: hydrogeology.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT Niou, S.; Pietz, J.M.; Farmer, I.W.; Daemen, J.J.; D Glass, C.E.; Neumann, S.P.

priv

International Technology Corp. NM (USA).
COUPLED BRINE MIGRATION AND STRESS ANALYSIS FOR REPO

SATURATION IN BEDDED SALT.

Rock Mechanics: Proceedings of the 28th US Symposium 1987, p. 601-608.

1987. p. 601-608. 87/00/00

A preliminary analysis of brine migration into excav repositories at WIPP is described. The computer code results are described.

GEOLOGY: radionuclide migration.

Herbert, A.W.; Jackson, C.P.; Lever, D.A.

UKAEA Harwell Lab. Theoretical Physics Div.; Departm Environment. London (UK).
COUPLED GROUNDWATER FLOW AND SOLUTE TRANSPORT WITH F

STRONGLY DEPENDANT UPON CONCENTRATION.

August 1987. 46 p.

87/08/00

The governing equations are discussed for the flow o solution with significant density variations through medium.

GEOLOGY: groundwater.

Cosma, C. (Vibrometric Oy. Helsinki, Finland).

Swedish Nuclear Fuel and Waste Management Co., Stock CROSSHOLE INVESTIGATIONS- SHORT AND MEDIUM RANGE SEI TOMOGRAPHY.

Febuary 1987. 41 p.

87/02/00

Seismic tomographic tests were conducted as a part o crosshole investigations program of the stripa proje has been to study if it is possible to detect by sei

tomography major fracture zones and determine their and orientation. GEOLOGY: fractures.

AUTHOR TYPE ORGANIZATION

Davis, S.N.; Murphy, E. govt

TITLE

Arizona University, Tucson (USA). Dept. of Hydrology Resources; Nuclear Regulatory Commission, Washington DATING GROUND WATER AND THE EVALUATION OF REPOSITORI

PUBLISH DATE **ABSTRACT**

RADIOACTIVE WASTE. Apr 1987. 194 p. 87/04/00

KEYWORDS LOCATION REFERENCE At least nine independent methods can be used to app groundwater ages. The methods vary widely in precisi give useful information. In complex ground-water sys many dating methods as possible should be used. GEOLOGY: groundwater.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE

Earth Technology Corp., Long Beach, CA (USA); Battel Inst., Columbus, OH (USA). Office of Nuclear Waste I DEPOSÍTION OF CRETACEOUS AND TERTIARY SEDIMENTS IN T MISSISSIPPI SALT BASIN (WITH EMPHASIS ON THE RICHTON

VOLUME 1. August 1987. 266 p.

87/08/00

Regional structure-contour and isochore maps were co selected Cretaceous and Tertiary lithostratigraphic eastern half of the basin.

GEOLOGY: salt.

Gruebler, G. (Duetsche Gesellschaft zum bau und Betr Endlagern fuer Abfallstoffe M.B.H., Peine, Germany,

DESIGN AND PERFORMANCE OF THE UNDERGROUND INVESTIGAT GORLEBEN SALT DOME. (in German)

Erzmetall. July-August 1987. V. 40(7/8) p. 366-371. 87/07-08/00

The gorleben salt dome has been under investigation ascertain it's suitability as a repository for radio wastes.

GEOLOGY: salt.

Beitz, J.V.; Bowers, D.L.; Doxtader, M.M.; Maroni, V D.T.

govt

Argonne National Lab. IL (USA).
DETECTION AND SPECIATION OF TRANSURANIUM ELEMENTS IN GROUNDWATER VIA PULSED-LASER EXCITATION.

1987. 16 p. 87/00/00

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR

simplified analogues, are being developed which exp. in pulsed laser technology. GEOLOGY: groundwater, chemistry, radionuclide migrat

Bode, W.; Baake, M.; Jockwer, N.

Gesellschaft fuer Strahlen- und Umweltforschung M.B Braunschweig (Germany) Inst. fuer Tieflagerung.
DETERMINATION OF HIGH VOLATILE COMPONENTS FROM TRIAS FROM ASSE. (in German)

1987. 49 p. 87/00/00

During site investigations in the area of Asse Salt of drillings had been carried out, to investigate the and hydrogeological situation. GEOLOGY: hydrogeology.

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Kemeny, J.M.; Cook, N.G.W. govt

Lawrence Berkeley Lab. CA (USA).
DETERMINATION OF ROCK FRACTURE PARAMETERS FROM CRACK FAILURE IN COMPRESSION.

Rock Mechanics: Proceedings of the 28th US Symposium 1987. P. 367-374.

87/00/00

Microchemical models for axial splitting and for she are used to investigate paramenters associated with fracture under compressive stresses. GEOLOGY:

Kamineni, D.C.; Thivierge, R.H.; Stone, D.

govt Atomic Energy of Canada Limited.

DEVELOPMENT OF A CATACLASTIC FAULT ZONE IN AN ARCHE PLUTON OF THE SUPERIOR PROVINCE: STRUCTURAL, GEOCHEM GEOPHYSICAL CHARACTERISTICS.

Reprinted from American Journal of Science (May 1988 288:458-494.

88/05/00

GEOLOGY: granite.

|Zimmerman, R.M.; Finley, R.E.; Schuch, R.L.; Dodds,

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE govt

Sandia National Labs. NM (USA).
DEVELOPMENT OF DIAMOND-TIPPED CHAIN SAWS FOR SLOT CU WELDED TUFF

Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 963-972. 87/00/00

This paper describes the development and performance of two chain saws, one with a 1.1 m bar and the othe m bar, that were used to cut thin, >15 mm, slots.

GEOLOGY: engineering.

acad

DIFFUSIVITIES IN CRYSTALLINE ROCK MATERIALS. Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 73. 85/09/00

GEOLOGY:

Kamineni, D.C.

govt

Atomic Energy of Canada Limited DISTRIBUTION OF URANIUM, THORIUM AND RARE-EARTH ELEM EYE-DASHWA LAKES PLUTON - A STUDY OF SOME ANALOGUE E Reprinted from Chemical Geology (1986) 55:361-373. 86/00/00

GEOLOGY: granite, chemistry.

Schaer, U. (SIA ASIC, Zurich, Switzerland).

DOES GEOLOGY HELP IN THE FINAL DISPOSAL OF RADIOACTI (in German)

Tech. Rundsch. 13 February 1987. V.79(7) P.36-39.

87/02/13

High-level radioactive wastes have to be stored safe thousands of years in deep geological formations. The discussed is whether or not a geological prognosis of span of time is possible. The main problem is ground GEOLOGY: groundwater, disposal and storage alternations.

AUTHOR TYPE ORGANIZATION

TITLE

Kelley, V.A.; Pickens, J.F.; Reeves, M.; Beauheim, R

Sandia National Labs. NM (USA); Intera Technologies, Austin, TX (USA). DOUBLE-POROSITY TRACER-TEST ANALYSIS FOR INTERPRETAT PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT FRACTURE CHARACTERISTICS OF A DOLOMITE FORMATION. 1987, 24 p.

87/00/00

Hydraulic and tracer testing studies have been performed the regional hydrologic characterization of the W Isolation Pilot Plant (WIPP) site in southeastern Me GEOLOGY: hydrology.

Russo, A.J.; Reda, D.C.

govt

Sandia National Lab. NM (USA)

DRYING OF AN INITIALLY SATURATED FRACTURED VOLCANIC 14 April 1987. 25 p.

87/04/14

The isothermal drying of an initially saturated weld rock was studied experimentally. Gamma-beam densiome to measure the materials effective porosity distributo the drying experiment.
GEOLOGY: tuff.

priv/govt

Ontario Hydro. (Canada),

DYNAMIC RESPONSE OF UNDERGROUND OPENINGS IN DISCONTI 1984. 168 p.

84/00/00

GEOLOGY:

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Nipp, H.K.; McNulty, E.G.

Federal Institute for Geosciences and Natural Resour EFFECTS OF MESH SIZE AND BOUNDARY CONDITIONS ON CREE ROCK SALT.

Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 653-662.

87/00/00

Mesh size, various boundary conditions, and consider period affect prediction of creep closure around an

KEYWORDS LOCATION REFERENCE

GEOLOGY:

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT govt

Lawrence Livermore National Lab. CA (USA). ELECTROMAGNETIC EXPERIMENT TO MAP IN SITU WATER IN H TUFF: PRELIMINARY RESULTS.

Ramirez, A.L.; Daily, W.D.; Farmer, I.W.; Daemen, J. C.S.; Glass, C.E.; Neumann, S.P.

borehole in salt. Test results are presented in this

Rock Mechanics: Proceedings of the 28th US Symposium

1987. p. 37-46. 87/00/00

The results of an experiment conducted in tunnel com

Nevada Test Site to evaluate geotomography as a poss candidate for in situ monitoring of hydrology in the of a heater placed in densely welded tuff are given. GEOLOGY: geologic disposal, tuff, monitoring.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT |Coelho, P.P. (University of Western Ontario, London. |Geology); Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. ELEMENT DISTRIBUTION ACROSS VEINS IN THE EAST BULL L ANORTHOSITE LAYERED INTRUSION, ALGOMA DISTRICT, ONT. EVALUATION OF MATRIX DIFFUSION.

P. 261-274. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

The chemical composition of such veins is compared t rock chemistry in order to evaluate the behavior of elements during alteration as a guide to radionuclid throughout the complex in the case of nuclear waste the area.

GEOLOGY: radionuclide migration, chemistry.

govt
Battelle Memorial Institute, OH (USA). Office of Nuc

ERG REVIEW OF SALT CONSTITUTIVE LAW, SALT STRESS DET AND SALT CORROSION AND MODELLING STUDIES.

March 1986. 86/03/00

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

GEOLOGY: salt.

acad

ESTIMATES OF VERTICAL HYDRAULIC CONDUCTIVITY IN THE SANDSTONE, MONTICELLO, UTAH. Colorado State University. 8TH Geohydro Waste Mgt. S (USA). Feb. 5-7, 1986. p. 143-153. 86/02/00

GEOLOGY:

Wilkins, B.J.S.; Liner, Y.; Rigby, G.L.

Atomic Energy of Canada Limited.
ESTIMATIONS OF CHANGES IN MICROCRACK-POPULATION, ELA
AND PERMEABILITY, DUE TO DIFFERENTIAL-THERMAL EXPANS
PLUTONIC ROCK SURROUNDING A NUCLEAR FUEL WASTE DISPO
7 p. (1985). Reprinted from Materials Research Socie

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE

Proceedings 50, Scientific Basis for Nuclear Waste N IX, p. 99-105, 1985. 85/00/00

GEOLOGY: thermodynamics, granite.

Wawersik, W.R.; Morgan, H.S.

govt Sandia National Labs. NM (USA).

EVALUATING DESIGN PROCEDURES FOR STRUCTURES IN ROCK Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 107-116.

87/00/00

Validating design procedures for structures in salt accelerated by suitable laboratory or benchscale exp where in situ loading conditions with inhomogeneous fields and heating are simulated, controlled and rep Studies presented entail observations on rock salt a laboratory testing and on salt from around old mine GEOLOGY: engineering, design.

Ramirez, A.L.; Daily, W.D. (Lawrence Livermore Natio Livermore, CA) govt

ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE

EVALUATION OF ALTERANT GEOPHYSICAL TOMOGRAPHY IN WEL J. Geophys. Res. 10 July 1987. V.92(B8) P.7843-7853. 87/07/10

Electromagnetic measurements have been performed at evaluate the applicability of alterant geophysical t delineate in situ flow paths in a welded tuff rock m GEOLOGY: tuff.

priv Earth Technology Corp. TX (USA). EVALUATION OF GEOLOGIC AND GEOPHYSICAL TECHNIQUES FO SURFACE-TO-SUBSURFACE PROJECTIONS OF GEOLOGIC CHARAC CRYSTALLINE ROCK. 1985. 33 p.

85/00/00

GEOLOGY: analytical techniques, crystalline.

Gascoyne, M.

govt

Atomic Energy of Canada Limited. EVIDENCE FOR THE STABILITY OF THE POTENTIAL NUCLEAR SPHENE, OVER GEOLOGICAL TIME, FROM URANIUM-LEAD AGES URANIUM-SERIES MEASUREMENTS.

12 p. (1986). Reprinted from Applied Geochemistry (1 1:199-210.

86/00/00

ABSTRACT **KEYWORDS** LOCATION REFERENCE

GEOLOGY:

AUTHOR TYPE TITLE

Oak Ridge National Lab. TN (USA),

Haase, C.S.; Gillis, G.A.; King, H.L.

ORGANIZATION

PUBLISH DATE ABSTRACT FISCAL YEAR 1985 GROUNDWATER INVESTIGATION DRILLING THE Y-12 PLANT, OAK RIDGE, TN: ENVIRONMENTAL SCIENCE PUBLICATION NO. 2805.

January 1987. 108 p.

87/01/00

Groundwater investigation drilling operations at ten currently used waste disposal sites in the Y-12 vinc

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT been completed. GEOLOGY: groundwater.

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Dey, T.N.; Kranz, R.L.

govt

Los Alamos Lab. NM (USA). FLAKE MECHANICS, BOREHOLE BREAKOUTS AND THERMAL SPAL Rock Mechanics: Proceedings of the 28th US Symposium

1987. p. 413-420. 87/00/00

The authors present a theory which assumes a uniaxia mechanism in relation to borehole breakouts. The res on rock failure due to high compressive stresses par free surface.

GEOLOGY: analytical techniques.

Lu, A.H.; Sagar, B.; Guenther, R.B.; Hudspeth, R.T. Hanford Operations, Richland, WA)

priv

FLOW EQUATIONS IN TERMS OF PIEZOMETER LEVELS FOR NON FLUID IN LOW-PERMEABILITY POROUS MEDIUM.

Water Resource Res. June 1987. V. 23(6) P. 1097-1102

87/06/00

The basalt waste isolation project is investigating flows for the disposal of high-level nuclear waste. spans of interest are so long that site performance projected by mathematical modelling.

GEOLOGY: basalt, modelling.

Rasmussen, T.C; Evans, D.D.

Nuclear Regulatory Commission, Washington, D.C. (USA FLUID FLOW AND SOLUTE TRANSPORT MODELLING THROUGH THREE-DIMENSIONAL NETWORKS OF VARIABLY SATURATED DIS

FRACTURES. Jan. 1989. 193 p.

89/01/00

The boundary integral method is used to estimate hyd

solute transport properties of unsaturated, fracture solving the boundary value problem within intersect: planes. Flow through both impermeable and permeable determined using two and three-dimensional formulat: results of these tests are discussed. GEOLOGY: hydrogeology.

KEYWORDS LOCATION REFERENCE

AUTHOR

|Brereton, N.R.; McEwen, T.J.; Lee, M.K. (British Geo

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Survey, Keyworth, UK)

FLUID FLOW IN CRYSTALLINE ROCKS: RELATIONSHIPS BETWE GROUNDWATER SPRING ALIGNMENTS AND OTHER SURFACE LINE ALTNABREAC, UK. J. Geophys. Res. 10 July 1987. V.92(B8) P.7797-7806.

The Strath Halladale granite has been studied with a establishing a relationship between the regional dis faults and fracture zones, surface discharges of gro and groundwater flow sysems.

GEOLOGY: groundwater, granite, fractures.

Zhou, Q.; Becker, A.; Goldstein, N.E.; Morrison, H.F. University of California. CA (USA). FRACTURE DETECTION USING SUBSURFACE ELECTROMAGNETIC

Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 5-18.

87/00/00

Audio frequency subsurface electromagnetic technique cross-hole and in-hole arrays for fracture detection evaluated numerically.

GEOLOGY: analytical techniques.

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Sour, L.; Ubbes, W.

acad

Colorado School of Mines. CO (USA).
FRACTURE FLOW RESPONSE TO APPLIED STRESS: A FIELD ST Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 501-508.

87/00/00

A series of experiments that measured the mechanical hydrological responses of a single natural fracture controlled stress conditions in-situ has been perfor Colorado School of Mines. The fracture tests are des relation to the disposal of nuclear waste in crystal repositories. GEOLOGY:

acad

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE Radioactive Waste Management & the Nuclear Fuel Cycl 1986. V. 7(3). p. 253-278.

86/08/00

GEOLOGY: clay.

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

Evans, D.D.; Rasmussen, T.C.; Nicholson, T.J. (Univ. Tucson, AZ)
Post, R.G. (ed.)

acad

FRACTURE SYSTEM CHARACTERIZATION FOR UNSATURATED ROC P. 201-208. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

Techniques for estimating fluid flow through fractur

tuffs are presented. GEOLOGY: fractures.

Carlos, B.

govt

Los Alamos National Lab. NM (USA).

FRACTURE-COATING MINERALS IN THE TOPOPAH SPRING MEMB

TUFF OF CALICO HILLS FROM DRILL HOLE J-13.

Feb. 1989. 21 p.

89/02/00

Fracture lining minerals from drill core in the Topo Member of the Paintbrush Tuff and the tuff of Calico water well J-13 were studied to identify the differe these minerals and those seen in drill core USW G-4. differences and their possible meanings are discusse GEOLOGY: geologic disposal.

Meyer, R.E.; Arnold, W.D.; Ho, P.C.; Case, F.I.; O'K govt

Oak Ridge National Lab. TN (USA). GEOCHEMICAL BEHAVIOR OF CS, SR, TC, NP, AND U IN SAL GROUNDWATERS: SORPTION EXPERIMENTS ON SHALES AND THE MINERAL COMPONENTS: PROGRESS REPORT.

November 1987. 55 p.

87/11/00

The sedimentary rock program at the Oak Ridge Nation investigating shale to determine its potential suita host rock for the disposal of high-level radioactive GEOLOGY: groundwater, shale.

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Ozima, M. priv

GEOHISTORY: GLOBAL EVOLUTION OF THE EARTH. Springer-Verlag, NY (USA). 1987. 170 p. 87/00/00

This book traces the evolution of the Earth, mainly of radiogenic isotopes from half-life parent element discusses it in terms of the latest developments in astrophysical theory. This study offers an approach forecasting the future of the Earth yielding clues funderstanding of environmental problems, such as rad waste to disposal and climate changes due ton Co/Sub increase.

GEOLOGY: analytical techniques.

KEYWORDS LOCATION REFERENCE

REFERENCE AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Thordarson, W. et al govt

GEOHYDROLOGY OF TEST WELL USW H-3, YUCCA MOUNTAIN, N NEVADA.

USGS Water Resources Investigations Report 84-4272. 85/00/00

An exploratory test well was drilled into tuff in th southwestern part of the Nevada Test Site, as part o investigation related to the isolation of high-level wastes. Hydrologic characteristics of the site are a determine the suitability of tuffs for isolating suc GEOLOGY: tuff, geologic disposal.

Thury, M. (Nationale Genossenschaft fuer die Lagerun Abafaelle, Baden, Switzerland).

GEOLOGICAL INVESTIGATIONS FOR THE FINAL DISPOSAL OF RADIOACTIVE WASTES. (in German) Tech. Rundsch. 13 February 1987. V.79(7) P.24-32.

87/02/13
The contribution of geology to the safety of a final for high-level radioactive wastes is discussed.

GEOLOGY: safety analysis, disposal and storage alter

|Brown, P.A.; Brown, A.; Kamineni, G.; McCrank, N.; S

TYPE ORGANIZATION TITLE

PUBLISH

DATE

assoc | Canadian Nuclear Society. (Canada). | GEOLOGICAL RESULTS FROM THREE RESEARCH AREAS AND THE | TO THE NUCLEAR FUEL WASTE MANAGEMENT PROGRAM. | Canadian Nuclear Society 2nd International Conference

Radioactive Waste Management. Sept. 7-11, 1986. p. 3 86/09/00

ABSTRACT KEYWORDS LOCATION REFERENCE

GEOLOGY:

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Wilder, D.G.; Yow, J.L. Jr.

Lawrence Livermore National Lab. CA (USA). GEOMECHANICS OF THE SPENT FUEL TEST: CLIMAX. July 1987. 89 p. 87/07/00

The measurements program examines both gross and loc responses of the rock mass to thermal loading, to ev thermomechanical response of seared and fractured ro of relatively unfractured rock.

GEOLOGY: granite, geology, fractures, thermodynamics

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

Lee, M.K. (British Geological Survey, Keywrth, Notti

GEOPHYSICAL INVESTIGATIONS IN THE STRATH HALLADALE-A DISTRICT (NORTHEAST SCOTLAND) IN RELATION TO RADIOAC DISPOSAL.

J. Geophys. Res. 10 July 1987. V.92(B8) P.7807-7819. 87/07/10

A series of geophysical studies have been carried ou Strath Halladale granite as part of a multidisciplin programme into the suitability of granitic rocks for waste disposal. GEOLOGY: granite.

Gibb, R.A.; Scott, J.S.

govt

Atomic Energy of Canada Limited.
GEOPHYSICAL METHODS FOR EVALUATION OF PLUTONIC ROCKS 1986. 99 p. 86/00/00

GEOLOGY: granite.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Filippi, C.; Fourniquet, J.; Godefroy, P.; Manigault Peaudecerf, P.

assoc

Commission of the European Communities, Luxembourg. GEOPROSPECTIVE STUDY OF RADIOACTIVE WASTE REPOSITORI A PALEOSITE.

1987. 75 p. 87/00/00

The aim of this research is to validate the geoprosp approach elaborated previously in the framework of c with Commission of European Communities.

GEOLOGY: geologic disposal.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION . Whitaker, S.H. (AECL, Pinawa, Manitoba, Whiteshell N Research Establishment) govt

GEOSCIENCE RESEARCH FOR THE CANADIAN NUCLEAR FUEL W_F MANAGEMENT PROGRAM. Radioact. Waste Manage. Nucl. Fuel Cycle. September 8(2-3) P. 145-195.

87/09/00 The CNFWMP is assessing the concept of deep geologic nuclear fuel waste in plutonic rock. As part of that a broad program of geoscience and geotechnical work undertaken to develop methods for characterizing sit incorporating geotechnical data into disposal facili and incorporating geotechnical data into environment safety assessment of the disposal system. GEOLOGY:

Horseman, S.T.; Winter, M.G.; Enwistle, D.C.

Commission of the European Communities, Luxembourg. GEOTECHNICAL CHARACTERIZATION OF BOOM CLAY IN RELATI DISPOSAL OF RADIOACTIVE WASTE.

1987. 95 p. 87/00/00

This report describes the results of a laboratroy st geotechnical properties of the tertiary boom clay. GEOLOGY: disposal and storage alternatives, clay.

Bibler, N.E., et al.

assoc

American Institute of Chemical Engineers, MA (USA).

TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION GLASS PERFORMANCE IN A GEOLOGIC SETTING. Proceedings of the Summer National Meeting of the Am Institute of Chemical Engineers, August 24-27, 1986. 86/00/00

GEOLOGY: glass.

Weiss, David

priv
The Center for Alternative Mining Development Policy
HIGH-LEVEL RADIOACTIVE WASTE DISPOSAL IN THE UPPER M

Madison, 1981,11pp.

81/00/00

Reviews geological and hydrogeological concerns in c of granite for high-level nuclear waste repositories

GEOLOGY; hydrogeology 1121 University Ave. Madison, WI 53715

Gascoyne, M.; Cramer, J.J.

anne

Atomic Energy of Canada Limited.

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE HISTORY OF ACTINIDE AND MINOR ELEMENT MOBILITY IN AN GRANITIC BATHOLITH IN MANITOBA, CANADA.

Applied Geochemistry. Jan-Feb. 1987. V. 2(1) p. 37-5

87/01/00

Analysis of surface and borehole core samples indica multi-stage history of alteration and concomitant el migration for fractures in granite at Lac du Bonnet, results provide qualitative analogues for predicting performance of a nuclear fuel waste vault deep in pl GEOLOGY: geologic disposal, natural analogues.

Pyrack-Nolte, L.J.; Myer, L.R.; Cook, N.G.W.; Wither

Lawrence Berkeley Lab. CA (USA).

HYDRAULIC AND MECHANICAL PROPERTIES OF NATURAL FRACT LOW-PERMEABILITY ROCK.

January 1987. 10 p.

87/01/00

The results of a comprehensive laboratory study of t displacement, permeability and void geometry of sing fractures in a quartz monzonite are summarized and a GEOLOGY: fractures.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

priv/govt Ontario Hydro. (Canada). HYDRAULIC COMPRESSION OF SHAFT BACKFILL AT THE BACKF INTERFACE. 1986. 1 V.

86/00/00 GEOLOGY:

Thoms, R.L.; Gehle, R.M.; Farmer, I.W.; Daemen, J.J. C.S.; Glass, C.E.; Neumann, S.P.

priv

Applied Geomechanics Inc. LA (USA).
HYDRAULIC FRACTURE TESTS IN A GULF COAST SALT DOME. Rock Mechanics: Proceedings of the 28th US Symposium

1987. p. 241-248. 87/00/00

Wireline hydraulic fracturing equipment and procedur developed for testing in fluid-filled holes in salt Tests indicated a larger formation resistance to fra propagation than currently used for design of storag gulf coast salt domes.

GEOLOGY: salt, monitoring.

Anderson, P.; Klockars, C.E.

Svensk Karnbranslehantering AB (Sweden). HYDROGEOLOGICAL INVESTIGATIONS AND TRACER TESTS IN A ROCK MASS IN THE STRIPA MINE.

PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE SKB Technical Report 85-12. 85/00/00

GEOLOGY: hydrogeology.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE

Glasbergen, P. (RIVM, Bilthoven, Netherlands) Come, B. (CEC); Chapman, N.B. (BGS).

Commission of the European Communities, Luxembourg. HYDROLOGICAL MODEL STUDIES AND NATURAL ISOTOPE DATA FOR GROUNDWATER FLOW IN DEEP SEDIMENTARY BASINS. p. 420-435. Natural Analogues in Radioactive Waste 1 Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham ar 1987. 506 p. Radioactive Waste Management Series. 87/04/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

The study of the flow system in deep aquifers is rel safety assessment studies of geologic disposal of ra waste. GEOLOGY: groundwater, hydrogeology, safety analysis.

Daily, W.; Lin, W.; Buscheck, T. (Lawrence Livermore Lab, Livermore, CA) govt

HYDROLOGICAL PROPERTIES OF TOPOPAH SPRING TUFF: LABO MEASURMENTS. J. Geophys. Res. 10 July 1987. V.92(B8) . 7854-7864. 87/07/10

The purpose of this work is to study the transport c tuff from the Topopah spring welded unit under condi expected in the near-field environment of a high-lev waste container.

GEOLOGY: groundwater, tuff.

Griffault, L.; Jebrak, M.; Lemiere, B.; Piantone, P. J.F.

Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. HYDROTHERMAL ALTERATION SYSTEMS AS ANALOGUES OF NUCL REPOSITORIES IN GRANITIC ROCKS. AN EXAMPLE: THE LANG HYDROTHERMAL SYSTEM.

P. 191-204. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

The results of this partial study on element distrib hydrothermally altered granite lead to conclude on.. GEOLOGY: granite, thermodynamics.

AUTHOR

| Halstead, Bob

TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

govt
State of Wisconsin, Radioactive Waste Review Board.
IMPLICATIONS OF DOE'S CANADIAN RESEARCH AGREEMENT.
Memo, Madison, August, 1986, 4pp.

Memo summarizing the implications of continuation of co-operative agreement between U.S. DOE and AECL on waste program in the U.S. Concludes that the agreem continued DOE work on crystalline rock in spite of t

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE congressional deferral of the second-round program, for early resumption of crystalline rock program in especially if technical problems are encountered in first-round program.

GEOLOGY: granite

anne

Haensel, W.

Gesellscaft fuer Stralen- und Umweltforschung M.B.H. Braunschweig, Germany, F.R. Inst. fuer Tieflagerung. IN-SITU PERMEABILITY MEASUREMENTS IN THE BEDROCK SUR UNDERGROUND CAVITIES, USING THE EXAMPLE OF KONRAD MI German)

1987. 79 p. 87/00/00

When assessing the safety for underground storage si permeability of the system and the surrounding bedro utmost importance.

GEOLOGY: safety analysis.

Eslinger, P.W. (Boeing Computer Services Co., Richla | Sagar, B. (Rockwell International Corp., Richland, W

Nuclear Energy Agency. Paris (France).
INCORPORATION OF UNCERTAINTY ANALYSIS IN ASSESSMENT
SITE FOR HIGH-LEVEL RADIOACTIVE WASTE DISPOSAL: STAT
ASPECTS.

P.221-235. Uncertainty Analysis for Performance Asse Radioactive Waste Disposal Systems. Proceedings of a workshop. Paris, France. Organization for Economic C and Development. 1987. 258 p.

87/00/00

The effect of uncertainties inherent in characterizi systems must be evaluated during assessment of repos performance. After providing some background informa basalt site and nature of applicable regulatory requapplication of the Monte Carlo method to the total sperformance is discussed

GEOLOGY: basalt, regulations, geologic disposal.

Wilder, D.G.; Farmer, I.W.; Daemen, J.J.; Desai, C.S. C.E.; Neumann, S.P.

Lawrence Livermore National Lab. CA (USA).

INFLUENCE OF STRESS-INDUCED DEFORMATIONS ON OBSERVED IN FRACTURES OF THE CLIMAX GRANITIC STOCK.

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 491-500.

87/00/00

Three examples of stress induced influence on fraction hydrology were noted in drifts 1400 ft. below surfaction granite. Interpretations of test results are given. GEOLOGY:

Gruber, J. (Environmental Science Group, Health, Saf Environmant Div., Los Alamos National Lab., Los Alam Post, R.G. (ed.) govt

INSTABILITY OF WASTE PLUMES ADSORBED ON IRON OXIDE 1 P. 397-402. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, A2 of Arizona Nuclear Engineering Dept. 1987. 87/00/00

Iron oxide coatings on the solid matrix dominate ads many soils. Their adsorption characteristics vary co with the composition of the soil pore water. GEOLOGY:

|Bath, G.D.; Jahren, C.E. |govt

INTERPRETATIONS OF MAGNETIC ANOMALIES AT A POTENTIAL SITE LOCATED IN THE YUCCA MOUNTAIN AREA, NEVADA TEST USGS Open File Report 84-120. 1984. 44 p. 84/00/00

Studies of the relation of magnetic properties to ge features have provided structural information at and potential site for storage of radioactive waste near Mountain.

GEOLOGY:

acad

| INVESTIGATIONS OF FRACTURE ZONES IN CRYSTALLINE ROCK | RADAR. | Nuclear Waste Management Symposium. Stockholm (Swede | 9-11, 1985. p. 145. | 85/09/00

GEOLOGY:

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

Bachman, G.O.

Bachman, G.O., Albuquerque, NM; Sandia National Labs KARST IN EVAPORITES IN SOUTHEASTERN NEW MEXICO. September 1987. 82 p.

87/09/00
Permian evaporites in SE New Mexico include gypsum, and salt, which are subject to both blanket and loca dissolution.

GEOLOGY: groundwater.

Board, M.P.; Wilson, M.L.; Voegle, M.D.

Science Applications International Corp. NV (USA).
LABORATORY DETERMINATION OF THE MECHANICAL, ULTRASON
HYDROLOGIC PROPERTIES OF WELDED TUFF FROM THE GROUSE
HEATED BLOCK SITE: NEVADA NUCLEAR WASTE STORAGE INVE
PROJECT.

Aug. 1987. 97 p.

87/08/00
The mechanical, ultrasonic, and hydrologic propertie taken from the Grouse Canyon member of the belted ralexposed in the GTUF heated block alcove, U12G tunnel test site, are described.

GEOLOGY:

It Corp., Albuquerque, NM; Battelle Memorial Inst., Office of Nuclear Waste Isolation.

LABORATORY INVESTIGATION OF CRUSHED SALT CONSOLIDATI FRACTURE HEALING.

January 1987. 202 p.

87/01/00
A laboratory test program was conducted to investiga consolidation behavior of crushed salt and fracture natural and artificial salt.

GEOLOGY: salt, fractures.

Sundaram, P.N.; Watkins, D.J.; Ralph, W.E.; Farmer, J.J.; Desai, C.S.; Glass, C.E.; Neumann, S.P.

priv/govt

Lawrence Livermore National Lab. CA; Bechtel Civil I

TITLE

PUBLISH

DATE ABSTRACT LABORATORY INVESTIGATIONS OF COUPLED STRESS-DEFORMAT FLOW IN A NATURAL ROCK FRACTURE.

Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 585-592.

87/00/00

Radial flow tests under several cycles of normal loa performed on a natural fracture in a 0.914 m diamete cylinder. Explanations of previous theories and stud

as the present one are given. GEOLOGY:

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT** Campbell, K.

govt

Los Alamos National Lab. CA (USA).

LATERAL CONTINUITY OF SORPTIVE MINERAL ZONES UNDERLY MOUNTAIN, NEVADA.

August 1987. 50 p.

87/08/00

Mineralogical investigations at Yucca Mountain are x characterization of this site for a potential nuclea repository.

GEOLOGY: siting.

Devgun, J.S.; Wilkinson, S.R.

govt

Atomic Energy of Canada Limited.

LONG-TERM PREDICTIONS OF WATER TABLE FROM PRECIPITAT FOR A WASTE DISPOSAL SITE.

Presented at Waste Management '88, Tucson, Arizona,

March 3 1988. 88/02/28

GEOLOGY: groundwater.

Bibler, N.E.; Jantzen, C.M. (E.I. Du Pont de Nemours Aiken, SC)

Bates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il (USA),

MATERIALS INTERACTIONS RELATING TO LONG-TERM GEOLOGI

NUCLEAR WASTE GLASS.

P. 47-66. Scientific Basis for Nuclear Waste Managem Pittsburgh, PA (USA). Materials Research Society. 19

87/00/00

This review paper systemizes the additional interact materials in the waste package will impose on the bo

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT KEYWORDS LOCATION

REFERENCE

glass waste form - groundwater interactions. The rep geologies reviewed are tuff, salt, basalt and granit GEOLOGY: tuff, salt, basalt, granite.

Ashworth, T.; Smith, D.R.; Ashworth, E. acad

MEASUREMENT METHODS FOR THERMAL TRANSPORT PROPERTIES 26th US Symposium on Rock Mechanics. June 26-28, 198 85/00/00

GEOLOGY: radionuclide migration.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Heimann, R.B.; Hooton, R.D.

govt

Atomic Energy of Canada Limited.
MINERALOGICAL CHANGES OF VARIOUS CEMENT FORMULATIONS REACTION WITH GROUNDWATER IN THE PRESENCE OF CA- AND NA-BENTONITE AT 150 2C.

13 p. (1986). Reprinted from Canadian Mineralogist (24:289-302.

86/00/00

GEOLOGY: groundwater, cement.

Lee, S.Y.; Hyder, L.K.; Alley, P.D. govt

Oak Ridge National Lab. TN (USA).

MINERALOGICAL CHARACTERIZATION OF SELECTED SHALES IN NUCLEAR WASTE REPOSITORY STUDIES: PROGRESS REPORT.

December 1987. 75 p. 87/12/00

Because baseline characterization of shale mineralog to the interpretation of results from experiments on radionuclide retardation, groundwater-shale interact physicochemical characteristics, a protocol for quan mineralogical analyses has been developed by integra geochemical and instrumental techniques for the inve properties related to repository performance.

GEOLOGY: shale, groundwater, chemistry.

Case, J.B.; Kelsall, P.C.

priv/govt

It Corp. Albuquerque, NM; Sandia National Lab. NM (U

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

MODIFICATION OF ROCK MASS PERMEABILITY IN THE ZONE S SHAFT IN FRACTURED, WELDED TUFF.

March 1987. 91 p.

87/03/00

The excavation of a nuclear waste repository at Yucc requires access through shafts and ramps from the gr to the repository horizon. To evaluate the need and of the sealing subsystem, it is necessary to predict modifications in the rock immediately surrounding th GEOLOGY: tuff, fractures.

Gopal, S.; Ballinger, R.; Cunnane, J.; Kuhn, W.; Lee P.; Westerman, R.

acad

Battelle Memorial Inst., Columbus, OH. Office of Nuc Isolation.

MULTIFACTOR TEST DESIGN TO INVESTIGATE UNIFORM CORRO LOW-CARBON STEEL IN A NUCLEAR WASTE SALT REPOSITORY

June 1987. 112 p.

87/06/00

The salt repository project panel on the experimenta the uniform corrosion of low-carbon steel was conven develop a well-documented consensus test matrix.

GEOLOGY: salt, corrosion, steel, disposal and storag

alternatives.

LOCATION REFERENCE

AUTHOR

Alexander, W.R.; Scott, R.D.; Mackenzie, A.B. (Scott Universities Research and Reactor Centre, Glasgow, U McKinley, I.G. (Eidgenoessisches Inst. fuer Reaktorfc Wuerenlingen, Switzerland); Come, B. (Commission of Communities, Brussels, Belgium); Chapman, N.A. (Brit Geological Survey, Keyworth).

TYPE ORGANIZATION TITLE PUBLISH

Commission of the European Communities, Luxembourg. NATURAL ANALOGUE STUDIES AT GRIMSEL, SOUTHERN SWITZE P. 473-484. Natural Analogues in Radioactive Waste I Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series. 87/04/00

DATE **ABSTRACT**

As an analogue to processes affecting radionuclide m crystalline rock waste repository, the distribution decay series radionuclides and rare earth elements h examined.

GEOLOGY: radionuclide migration.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Eyal, Y.; Lumpkin, G.R.; Ewing, R.C. (Technion-Isra of Technology, Haifa)
Bates, J.K.; Seefeldt, W.B. (eds.)

Argonne National Lab. IL (USA).

NATURAL ANNEALING OF ALPHA-RECOIL DAMAGE IN METAMICT THE THORITE GROUP.

P. 635-643. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

Minerals of the thorite mineral group have been lead powders in bicarbonate-carbonate solutions for time to 288 days.

GEOLOGY: leaching, chemistry.

Rajen, G.; Kulacki, F.A. (Dept. of Mechanical Engine Colorado State Univ., Fort Collins, CO) McAssey, E.V.; Schrock, V.E. (eds.)

acad

NATURAL CONVECTION IN A POROUS LAYER LOCALLY HEATED REGIONAL LABORATORY MODEL FOR A NUCLEAR WASTE REPOSI P. 19-26. Heat Transfer Problems in Nuclear Waste Ma York, NY. American Society of Mechanical Engineers. 87/00/00

This paper reports a numerical and experimental stud convective flow and heat transfer in a rectangular two-dimesional domain approximating the region aroun

waste repository. GEOLOGY: thermodynamics. AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION govt

Battelle Memorial Institute, OH (USA). Office of Nuc Isolation.

NATURE OF THE INTERFACIAL REGION BETWEEN CEMENTITIOU AND ROCKS FROM THE PALO, DURO BASIN AND OTHER SEAL C March 1986. 86/03/00

GEOLOGY: cement.

Muehlenweg, U.; Lieser, K.H. (Technische Hochschule Germany, F.R. Inst. fuer Kernchemie)

Technische Univ. Muenchen, Garching, Germany, F.R. I

TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

|Radiochemie; Commission of the European Communities, (Belgium).

NEPTUNIUM IN THE GEOSPHERE.

P. 70. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p.

Published in summary form only. GEOLOGY: radionuclide migration.

priv Fenix and Scisson, Inc., Mercury, NV (USA).
NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) MINING SUMMARY.

July 1987. 40 p. 87/07/00 This is a summary report for all boreholes drilled p 1, 1987, in support of the NNWSI. GEOLOGY:

priv Fenix and Scisson, Inc., Mercury, NV (USA).
NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) HISTORIES: UNSATURATED ZONE-NEUTRON HOLES: 76 BOREHO

BETWEEN MAY 1984 AND FEBUARY 1986.

May 1987. 311 p.

87/05/00 This is a compilation of data from 74 shallow alluvi exploratory core holes and two shallow calibration c GEOLOGY:

priv Fenix and Scisson, Inc., Mercury, NV (USA).
NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI)
HISTORIES, USW UZ-1, UE-25 UZ NO.4, UE-25 NO.5, USW
UZ-6S, USW UZ-7, USW UZ-8, USW UZ-13. PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE April 1987. 83 p.

87/04/00 This report is a compilation of data from eight expl boreholes drilled to help characterize the geology a of the unsaturated zone. GEOLOGY: hydrology.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Johnson, R.L.; Bauer, S.J.

govt Sandia National Labs. NM (USA);

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT: EVALUATION AT YUCCA MOUNTAIN, NEVADA TEST SITE: NEAR THERMAL AND MECHANICAL CALCULATIONS USING THE SANDIA May 1987. 62 p. 87/05/00

Presented in this report are the results of a compar of two candidate horizons, the welded, devitrified T Spring member of the paintbrush tuff, and the nonwel zeolitized tuffaceous beds of Calico Hills. GEOLOGY: tuff.

Graves, R.J. (Biospherics Inc., Rockville, MD) priv

NEW PERMEAMETER FOR GEOLOGIC POROUS-MEDIA. VP. Pittsburgh Conference and Exposition of Analytic and Applied Spectroscopy. Washington, DC. American C Society. 1987. 87/00/00

The use of a modified microbe HPLC/SFC system is des automated rapid-analysis permeameter for studying th interactions of liquid hazardous waste leachates wit permeability geologic porous- media.

GEOLOGY:

Pruess, K.

acad University of California. CA (USA).

NUMERICAL STUDIES OF FLUID AND HEAT FLOW NEAR HIGH-L WASTE PACKAGES EMPLACED IN PARTIALLY SATURATED FRACT LBNL Report 18552. Nov. 1984. 48 p.

84/11/00

Modelling studies on the simultaneous transport of h water, vapor, and air in partially saturated fractur rock are reviewed. A region around an infinite strin waste canisters is modeled, taking into account both discrete fractures and the porous matrix.

GEOLOGY: modelling.

Latham, A.G.; Schwarcz, H.P. acad/govt/priv

|Geological Survey of Canada (Canada).; McMaster Univ

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

(Canada) ON THE POSSIBILITY OF DETERMINING RATES OF REMOVAL O FROM CRYSTALLINE IGNEOUS ROCKS USING U-SERIES DISEQU APPLICABILITY OF A U-LEACH MODEL TO MINERAL SEPARATE Applied Geochemistry. Jan-Feb. 1987. V. 2(1) p.67-71 87/01/00

Preliminary U-series data are presented on the diseq mineral separates of surface samples from the Eye-Da Granite (Canada). GEOLOGY: chemistry.

Farmer, I.W.; Daemen, J.J.K.; Desai, C.S.; Glass, C. S.P.

PERMEABILITY CHANGES DURING SHEAR DEFORMATION OF FRA Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 473-480. 87/00/00

The effect of shear deformation on the permeability rock has been investigated in drained triaxial compr experiments on prefractured samples of coconino sand GEOLOGY: analytical techniques.

Myer, L.R.; Christian, .L.

Lawrence Berkeley Lab. CA (USA). PERMEABILITY OF SHALE AT ELEVATED TEMPERATURE AND PR METHODOLOGY AND PRELIMINARY RESULTS. May 1987. 34 p. 8/05/00

A method of measuring the hydraulic conductivity of permeability shale as a function of pressure and tem been developed and successfully demonstrated. GEOLOGY: shale.

Zucca, J.J. govt

PETITE SISMIQUE MEASUREMENTS AT THE SPENT FUEL TEST-LLNL Report UCRL-53597. Sept. 1984. 29 p. 84/09/00

A petite sismique estimate of the deformation modulu conducted during May 1984 at the Spent Fuel Test-Cli at the Nevada Test Site. The technique and results a described.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE GEOLOGY: geologic disposal.

Knaus, K. govt

PETROLOGIC AND GEOCHEMICAL CHARACTERIZATION OF THE ! MEMBER OF THE PAINTBRUSH TUFF: OUTCROP SAMPLES USED PACKAGE EXPERIMENTS.

LLNL Report UCRL-53558. June 1984. 36 p.

84/06/00

Characterization studies conducted with outcrop same Topopah Spring Member of the Paintbrush Tuff are sur GEOLOGY: siting.

Price, R.H.; Connolly, J.R.; Keil, K.

govt/acad

Sandia National Lab. NM; New Mexico University, Albu

(USA)

PETROLOGIC AND MECHANICAL PROPERTIES OF OUTCROP SAME WELDED, DEVITRIFIED TOPOPAH SPRING MEMBER OF THE PA]

May 1987. 78 p. 87/05/00

More than fifty outcrop samples of the Topopah sprinthe paintbrush tuff have been analyzed for their pet mechanical properties.

GEOLOGY: tuff.

Throckmorton, C.K.

GEOLOGY: fractures.

Geological Survey, Denver, CO (USA).
PHOTOGEOLOGIC STUDY OF SMALL-SCALE LINEAR FEATURES N POTENTIAL NUCLEAR WASTE REPOSITORY SITE AT YUCCA MOU SOUTHERN NYE COUNTY, NEVADA.

1987. 56 p. 87/00/00

Linear features were mapped from 1:2400 scale aerial of the northern half of the potential underground nu repository site at Yucca Mountain by means of a Kerr stereoplotter. To determine if the linear features of fracture traces observed in the field, stations were the map where the traces were both abundant and loca within one unit.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Pusch, R.; Elestroem, M.; Doergesson, L. govt

The Swedish Nuclear Fuel and Waste Management Co., (PIPING AND EROSION PHENOMENA IN SOFT CLAY GELS.

May 1987. 45 p. 87/05/00

The present study has confirmed the conclusions from investigations of piping and erosion of soft smectit

showing that the erodibility can be predicted by com drag forces exerted by flowing water and the cohesiv bond in the gels.
GEOLOGY: analytical techniques.

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE

Adams, J. acad

KEYWORDS LOCATION REFERENCE

ABSTRACT

POSTGLACIAL FAULTING IN EASTERN CANADA.
Tectonophysics, Elsevier Science Publishing, Amsterd

Describes the nature, faulting and seismic hazard im postglacial faulting in Eastern Canada.

GEOLÓGY:

89/00/00

AUTHOR

anne

TYPE ORGANIZATION TITLE | Fries, G. (Ecole des Mines, 77-Fontainbleau, France. | Sedimentologie). | acad

Commission of the European Communities, Luxembourg. POTENTIAL FOR CREATION OF A SALT DOME FOLLOWING DISP RADIOACTIVE WASTE IN A SALT LAYER. VOL.2. GEOLOGY OF (in French) 1987. 144 p.

PUBLISH DATE ABSTRACT

87/00/00
The study aims at quantifying the possibility of cre salt dome from a salt layer in which heat-emitting r waste would be buried.

GEOLOGY: salt.

KEYWORDS LOCATION REFERENCE

DATE

ABSTRACT

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

|Einzinger, R.E.; Woodley, R.E.

Hanford Engineering Development Lab. Richland, WA (UPREDICTING SPENT FUEL OXIDATION STATES IN A TUFF REP 1987. 22 p.

87/00/00

The oxidation state of the lwr spent fuel in the moi environment of a tuff repository could be a signific

KEYWORDS LOCATION REFERENCE in determining it's leaching and dissolution charact GEOLOGY: tuff, leaching.

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Lomenick, T.F.; Russell, J.E.

Oak Ridge National Lab. TN (USA).

PRELIMINARY CREEP AND PILLAR CLÓSURE DATA FOR SHALES October 1987. 37 p.

87/10/00

The results of fourteen laboratory creep tests on mo of four different shales are reported.

GEOLOGY: shale.

KEYWORDS LOCATION REFERENCE

|Krumhansl, J.L.; Stein, C.L. (Sandia National Labs.,

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE NM). govt

Pacific Northwest Lab. WA (USA).
PRELIMINARY REPORT ON WIPP BRINE COMPOSITIONS. Proceedings of Salt Repository Project's Workshop ir Migration. March 1987, p. 9-11, Appendix/C.68-C.68.

87/03/00 The authors present analyses of macro- and microscor observed within the WIPP facility and in the surrour. with interpretations regarding the origin and histor fluids and their potential effects on long-term wast GEOLOGY: salt.

priv Berkeley Hydrotechnique, Inc., Berkeley, CA (USA). PROCEEDINGS OF THE FIRST HYDROLOGY WORKSHOP FOR SHAI

86/00/00

GEOLOGY: hydrology.

Langkopf, B.S.

govt

Sandia National Lab. NM (USA).
PROPOSED PRELIMINARY DEFINITION OF THE DISTURBED ZON APPROPRIATE FOR A REPOSITORY AT YUCCA MOUNTAIN.

December 1987. 112 p.

87/12/00

Some of the calculations that support the licensing

repository for high-level radioactive waste will use regulatory concept of a disturbed zone. This paper s results of computer analyses and laboratory experime suggests a preliminary definition for the boundary o disturbed zone for the unsaturated environment at Yu Mountain. GEOLOGY: regulations.

Eckert, J.L.; Kalia, H.N.; Coyle, A.J.

Battelle Memorial Institute., Hereford, TX (USA). Of

Nuclear Waste Isolation.

QUARTERLY BRINE MIGRATION DATA REPORT, JULY- SEPTEMB NUCLEAR WASTE REPOSITORY SIMULATION EXPERIMENTS (BRI MIGRATION), ASSE MINE OF THE FEDERAL REPUBLIC OF GER November 1987, 265 p.

87/11/00

The purpose of this report is to provide field test various analysts and to refine and support numerical brine migration, room closure, and other thermomecha behaviors of salt subjected to heat and gamma radiat GEOLOGY: thermodynamics, salt. AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

Krauskopf, K.B. (Stanford Univ., CA) acad

RADIOACTIVE WASTE DISPOSAL AND GEOLOGY. London, UK. Chapman and Hall. 1988. 157 p. Topics in Sciences Series. V.1.

88/00/00

An introduction to the geology of radioactive waste presented with an emphasis on high-level waste from Chapters included cover the temporary storage of rad wastes, underground and marine disposal, the selecti repository sites, and the development of predictive Social and political aspects and world-wide problems radioactive waste are presented.

GEOLOGY: marine disposal, geologic disposal, siting,

Burnell, J.R.; Coles, D.G. (Battelle Pacific Northwe Richland, WA)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, RADIONUCLIDE INJECTION EXPERIMENTS FOR TESTING THE R

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

CAPACITY OF BASALT IN NUCLEAR WASTE REPOSITORY STUDI P. 48-49. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only.

GEOLOGY:

Lemire, A.E. Gascoyne, M.

govt

Atomic Energy of Canada Limited.

RADON, RADIÚM, AND OTHER RADIOACTIVITY IN GROUND WAT HYDROGEOLOGIC IMPACT AND APPLICATION TO INDOOR AIRBO CONTAMINATION. NATURAL RADIOACTIVITY IN SOME GROUNDW CANADIAN SHIELD.

14 p. (1987). Reprinted from Proceedings of the NWWA

Somerset, New Jersey, p. 97-110, 1987.

87/00/00

GEOLOGY: groundwater.

Borns, D.J.

govt

Sandia National Lab. NM (USA). RATES OF EVAPORITE DEFORMATION: THE ROLE OF PRESSURE

July 1987. 43 p. 87/07/00

Evaporite sequences were studied for hazardous waste hydrocarbon development and storage. Rates of deform important in evaluating the long term performance of evaporites. Rates are controlled by temperature, dif stress, and active mechanism of deformation for each type of evaporite and setting.

| GEOLOGY:

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT Lappin, A.R.

Sandia National Lab. NM (USA).
RECENT DEVELOPMENTS IN THE CONCEPTUAL GEOLOGIC AND F

UNDERSTANDING OF THE WIPP SITE, SOUTHEASTERN NEW MED P. 255-260. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, Af of Arizona Nuclear Engineering Dept. 1987.

87/00/00

Hydrologic and geochemical characterization of the W progressed significantly since the 1980 WIPP final F Impact Statement. Recent analyses indicate that flui

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

encountered in the WIPP facility and in experimental brine-migration studies are grain-boundary fluids, c distinct from fluid inclusions. GEOLOGY: geologic disposal, hydrology, chemistry.

Fabryka-Martin, J.T.; Roman, D.; Airey, P.L.; Elmore P.W.; Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. REDISTRIBUTION OF NATURAL 129I AMONG MINERAL PHASES WATER IN THE KOONGARRA URANIUM DEPOSIT, N.T., AUSTRA P. 374-385. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

Redistribution of fission-product 129I between ore a groundwater is being evaluated in field studies at fore deposits.

GEOLOGY: groundwater.

Wilkberg, P. (Royal Inst. of Tech., Stockholm, Swede acad Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

Radiochemie; Commission of the European Communities (Belgium).

P. 114-115. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only.

GEOLOGY: groundwater.

acad/priv
Earth Technology Corp. Long Beach, CA; Battelle Memo
Columbus, OH. Office of Nuclear Waste Isolation.
REGIONAL GROUNDWATER FLOW NEAR RICHTON AND CYPRESS C
MISSISSIPPI: ANNUAL STATUS REPORT FOR FISCAL YEAR 19

PUBLISH DATE **ABSTRACT** June 1987. 260 p. 87/06/00

The reported work is part of an ongoing evaluation o Cypress salt domes, located in Perry County, as pote repositories for high-level nuclear waste. This repo the refinement of previously developed conceptual an models of regional groundwater flow in the vicinity

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT domes, based on extensive evaluation of all availabl data and on application of a computer flow code. GEOLOGY: groundwater.

Vaniman, D. (comp.)

govt

Los Alamos National Lab. NM (USA). RESEARCH BY ESS DIVISION FOR THE NEVADA NUCLEAR WAST INVESTIGATIONS: PROGRESS REPORT, JANUARY-JUNE 1985. October 1987. 53 p.

87/10/00

Petrographic research for the Nevada Nuclear Waste S Investigations focused on xenolithic variability in Spring member and on variations of clinoptilolite co Yucca Mountain.

GEOLOGY:

Pri, J. (Netherlands Energy Research Foundation, Net Post, R.G. (ed.)

HOLE IN THE THERMOMECHANICAL EXPERIMENTS PERFORME HOLE IN THE ASSE SALT MINE. (FRG)
P. 187-192. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.
87/00/00

Directly after the drilling operation in Dec. 1979 a thermo-mechanical experiments started. Convergence i under isothermal and nonisothermal conditions. The t induced pressure of the salt on a cylinder, simulaticanister, was measured for several thermal loads. GEOLOGY: thermodynamics, salt.

Gauthier, Michel (Department of Earth Sciences, Facu Geology, University of Quebec at Montreal)

Memphramagog Conservation, Inc.(Canada).
RESUME GEOLOGIQUE DU NORD DU VERMONT ET DU SUD DU QU

French). MCI, Magog, Quebec, 1986

86/00/00

Northern Vermont and southern Quebec are unsuitable geological siting criteria of the U.S. Department of a nuclear waste repository. The area is tectonicall and cross-cut with major fault lines. The St. Lawre

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

is one of North America's high-risk seismic zones, a Vermont granites are at the heart of an earthquake 2 GEOLOGY: MCI, R.R.2, Chemin Southiere, Magog, Quebec J1X 3W3 anne

Offermann, P. (Hahn-Meitner Inst. Berlin G.M.B.H., G.F., R.); Bidoglio, G. (Commission of the European Com Ispra, Italy)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).
RETENTION PROPERTIES OF PRESSED SALT FOR TC, NP, PU, P. 127-128. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only. GEOLOGY: salt.

Olsson, W.A. govt

Sandia National Lab. NM (USA). ROCK JOINT COMPLIANCE STUDIES.

April 1987. 98 p. 87/04/00

This report has three objectives: 1) to summarize the developmental investigations of the rotary shear test rock joint compliance studies, including a description rotary shear machine and sample preparation techniques set out and discuss the required constitutive data, to interpret and analyze the shear compliance data from of test and 2) to give some examples and problem. type of test, and 3) to give some examples and preli for Topopah spring tuff. GEOLOGY: tuff.

Holt, R.M.; Powers, D.W. (IT Corp., Albuquerue, NM) Chaturvedi, L. (ed.). priv

New Mexico Health and Environment Dept., Santa Fe, U Environmental Evaluation Group. RUSTLER FORMATION IN THE WASTE HANDLING AND EXHAUST

SITE, SOUTHEASTERN NEW MEXICO.

P. 26-35. The Rustler Formation at the WIPP Site: Re Workshop on the Geology and Hydrology of the Rustler as it Relates to the WIPP project. Febuary 1987. 87/02/00

Data are reported here in their stratigraphic contex

Rustler and reevaluating the role of dissolution in formation of the Rustler. GEOLOGY:

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Gascoyne, M.; Davison, C.C.; Ross, J.D.; Pearson, R. govt Atomic Energy of Canada Limited. SALINE GROUNDWATERS AND BRINES IN PLUTONS IN THE CAN 16 p. (1987). Reprinted from Saline Water and Gases Crystalline Rocks, p. 53-68, 1987. 87/00/00

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

GEOLOGY: groundwater.

GEOLOGY: salt.

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

govt Battelle Memorial Institute. OH (USA). Office of Nuc SALT DISSOLUTION AND COLLAPSE AT THE WINK SINK IN WE June 1986. 86/00/00

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Haberman, J.H.; Westerman, R.E. Pacific Northwest Lab. WA (USA). SALT REPOSITORY PROJECT: DATA REPORT ON CORROSION RE OBTAINED FROM EXCESS-SALT CORROSION TEST MATRIX 1. May 1987. 12 p. 87/05/00

The test discussed in this data report was directed determining the response of the reference a216 grade when it is exposed to anoxic excess-salt conditions GEOLOGY: salt, corrosion.

Rai, D.; Schramke, J.A.; Ryan, J.L. priv Pacific Northwest Lab. WA (USA)

SALT REPOSITORY PROJECT: DATA REPORT ON SOLUBILITY O May 1987. 21 p. 87/05/00

|This data report details the experiments conducted t

KEYWORDS LOCATION REFERENCE the solubility of PU(OH)3 in brines and in dilute so GEOLOGY: salt, groundwater.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Talbot, C.J.; Jackson, M.P.A.

SALT TECTONICS. Science (Washington, DC). 1988. P. 70-79. DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT 88/00/00 Salt deposit

Salt deposits have economic significance because of importance as oil and gas traps and their potential radioactive waste disposal sites. This article reviet formation of salt domes. Current work on tectonics of formation and related tectonics is then discussed in GEOLOGY: salt.

Aoki, H.; Kosaka, T.; Mizushina, T.; Shimizu, M. (Ta Tokyo. Nuclear Facilities Eng. Dept.); Uji, S. (Tais Tokyo. Information System Dept.); Tsuchiya, H. (Tais Yokohama, Japan) Wittmann, F.H. (ed.).

SEISMIC BEHAVIOR ANALYSIS OF PILED DRUMS. (INTERIM S FACILITIES).

P.1141-1146. Transactions of the 9th International (Structural Mechanics in Reactor Technology. Vol. K2. Response Analysis of Nuclear Power Plant Systems. Rc Netherlands. Balkema. 1987. 669 p.

A computer program of piled drum's dynamic motion is the analytical result is referred to the experimenta GEOLOGY: seismic.

Wu, C.L.; Subramanian, C.V.

SEISMIC DESIGN STRATEGY FOR SURFACE FACILITIES AT TH YUCCA MOUNTAIN NUCLEAR WASTE REPOSITORY. Trans. Am. Nucl. Soc. 1987. V. 54 P. 66. 87/00/00 Seismic considerations pertinent to the design of the

Seismic considerations pertinent to the design of the facilities consist of ground motion generated by bot earthquakes and underground nuclear explosions which conducted periodically in the nearby Nevada test sit addition, because of the presence of a number of potential content of the presence of a number of potential content of the presence of a number of potential content of the presence of a number of potential content of the presence of a number of potential content of the presence of a number of potential content of the presence of a number of potential content of the presence of a number of potential content of the presence of a number of potential content of the presence of the presenc

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT active faults in the vincinity of the surface facili it may be prudent to design the waste-handling build accommodate minor fault displacement.
GEOLOGY: seismic.

Acharya, H.R.; Tyrala, L.M.; Gonzales, J.M.; Hileman and Webster Engineering Corp., Boson, MA)
Post, R.G. (ed.)
priv

SEISMICITY OF TEXAS PANHANDLE.
P. 193-200. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

|87/00/00 |Seismicity of the Texas Panhandle has been examined |the earthquake hazard at a potential site for a high

nuclear waste repository in the Palo Duro basin. GEOLOGY: seismic.

AUTHOR TYPE ORGANIZATION TITLE

Engartner, B.L. govt

Sandia National Labs. NM (USA). SENSITIVITY ANALYSES OF UNDERGROUND DRIFT TEMPERATUR AND SAFETY FACTORS TO VARIATION IN THE ROCK MASS PROTUFF FOR A NUCLEAR WASTE REPOSITORY LOCATED AT YUCCA NEVADA. (HORIZONTAL EMPLACEMENT DRIFT)
May 1987. 48 p.
87/05/00

Preliminary two-dimensional thermal and thermal/mech sensitivity analyses of the design of the horizontal drift were performed for times out to 100 years afte emplacement.

GEOLOGY: thermodynamics.

KEYWORDS LOCATION REFERENCE

PUBLISH DATE

ABSTRACT

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

ABSTRACT

Gilliam, T.M.; Morgan, I.L

Oak Ridge National Lab. TN (USA).

SHALE: MEASUREMENT OF THERMAL PROPERTIES.

July 1987. 135 p. 87/07/00

Thermal conductivity and heat capacity measurements samples of devonian shale, pierre shale, and oil sha Green River formation. Thermal expansion measurement on selected samples of devonian shale. Average value thermal conductivity and heat capacity for the sampl

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT were within two standard deviations. GEOLOGY: analytical techniques.

Heimann, R.B.; Stanchell, M.A.T.; Hooton, R.D.

Atomic Energy of Canada Limited.

SHORT-TERM DISSOLUTION EXPERIMENTS ON VARIOUS CEMENT IN STANDARD CANADIAN SHIELD SALINE SOLUTION IN THE P CLAY.

1986. 74 p. 86/00/00

GEOLOGY: cement, clay.

Jenkins, C.F.; Corbett, R.A.

priv

Savannah River Lab. SC; Corrosion Testing Lab., Inc.

SOIL CHARACTERISTICS AS CRITERIA FOR CATHODIC PROTEC NUCLEAR FUEL PRODUCTION FACILITY.

1987. 26 p. 87/00/00

The fact that buried, metallic structures corrode is documented. It has been postulated that the extent a

attack is controlled predominantly by the character surrounding soil. GEOLOGY: corrosion.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

Drumm, E.C.

Oak Ridge National Lab. TN (USA).
SOIL MECHANICS AND ANALYSIS OF SOILS OVERLYING CAVI: Aug. 1987. 87 p.

87/08/00

The stability of the residual soils existing at the Ridge site, Oak Ridge, was evaluated with respect to and collapse of the residual soil into the bedrock of results and their implications are discussed. GEOLOGY:

KEYWORDS LOCATION REFERENCE

ABSTRACT

TYPE

AUTHOR

Vovk, I.F. (International Atomic Energy Agency, Vier Div. of Nuclear Fuel Cycle)

Come, B: (CEC); Chaman, N.A. (BGS).

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION Commission of the European Communities, Luxembourg. SOME GEOCHEMICAL AND MINERALOGICAL PECULIARITIES OF RADIOACTIVE MATERIALS AS EVIDENCE FOR RADIOLYSIS IN P. 205-216. Natural Analogues in Radioactive Waste I Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham ar 1987. 506 p. Radioactive Waste Management Series.

Geochemical and mineralogical features of deposits of materials have been reviewed in a search for the rad effects established in laboratory experiments. GEOLOGY:

Witherspoon, P.A.; Long. J.C.S.

acad

University of California. CA (USA).

SOME RECENT DEVELOPMENTS IN UNDERSTANDING THE HYDROI FRACTURED ROCKS.

Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 421-432.

87/00/00

The authors have established a research program aime characterizing the geometry of the void spaces, usin casts and mercury injection to elucidate details of geometry that result as a fracture closes under stre GEOLOGY: analytical techniques.

Dran, J.C. (Centre National de la Recherche Scientif France); Petit, J.C.; Menager, M.T. (CEA Centre D'Et Nucleaires de Fontenay-aux-Roses, France); Della Mea Univ., Italy) govt/acad

Technische Univ. Muenchen, Garching, Germany, F.R. I

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE

Radiochemie; Commission of the European Communities, (Belgium).

SORPTION OF ACTINIDE ANALOGUES ON GRANITE MINERALS S ION BEAM TECHNIQUES.

P. 67-68. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only. GEOLOGY: radionuclide migration.

Lambert, S.J. (Sandia National Labs., Albuuerque, NM Chaturvedi, L. (ed.). govt

ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT New Mexico Health and Environment Dept., Santa Fe, U Environmental Evaluation Group.

STABLE-ISOTOPE STUDIES OF GROUNDWATERS IN SOUTHEASTE

MEXICO.

P. 36-57. The Rustler Formation at the WIPP Site: Re Workshop on the Geology and Hydrology of the Rustler as it Relates to the WIPP project. Febuary 1987.

87/02/00

Oxygen and deuterium/hydrogen ratio measurements hav on groundwaters sampled according to specific field applied during pump tests of the Rustler Formation. GEOLOGY: groundwater.

govt

Nuclear Waste Project Office, State of Nevada Agency

Projects. (USA).

STATE OF NEVADA COMMENTS ON THE U.S. DOE CONSULTATIO CHARACTERIZATION PLAN, YUCCA MOUNTAIN SITE, NEVADA R DEVELOPMENT AREA, NEVADA, VOL 2.

NWPO. Carson City, Sept. 1988, 246pp.

88/09/00

Continues comments from Vol.1. Contains technical c geology and geohydrology of Yucca Mountain relating raised in the DOE's Draft Site Characterization Plan key technical issues must be resolved, including mec rates of flow in the unsaturated zone, rates and loc recharge, validity of models to be used in calculati repository performance, geochemical environment.

GEOLOGY: hydrogeology, modelling. Capitol Complex, Carson City, Nevada 89710

NFW 2.2-42-1

Bachman, G.O. (Sandia National Labs, Albuquerque, NM Chaturvedi, L. (ed.).

govt New Mexico Health and Environment Dept. Santa Fe, US

Environmental Evaluation Group STRATIGRAPHY AND DISSOLUTION OF THE RUSTLER FORMATIO P. 16-25. The Rustler Formation at the WIPP Site: Re Workshop on the Geology and Hydrology of the Rustler as it Relates to the WIPP project. Febuary 1987.

87/02/00 This report describes the physical stratigraphy of t

Formation, because the WIPP will be constructed in : that underlie this formation. GEOLOGY: salt.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

Haimson, B.C. (Univ. of Wisconsin, Madison, WI). acad

STRESS MEASUREMENTS AT HANFORD, WASHINGTON FOR THE I NUCLEAR WASTE REPOSITORY FACILITY. P. 119-124. Proceedings of the 6th International Cor Mechanics. Accord, MA. Balkema Pub. 1987.

This paper summarises the first complete hydrofractu measurements at the Hanford site in one of the basal considered for the construction of a nuclear waste r GEOLOGY: basalt.

Haase, C.S.; Gillis, G.A.; King, H.L.

govt

Oak Ridge National Lab. WA (USA) SUBSURFACE DATA BASE FOR BEAR CREEK VALLEY, CHESTNUT PARTS OF BETHEL VALLEY ON THE US DEPARTMENT OF ENERG RESERVATION.

April 1987. 178 p.

87/04/00

Construction data and available hydrogeological data boreholes and wells at the y-12 plant and in the sur vicinity have been assembled and tabulated in a data GEOLOGY:

Zimmerman, R.M.; Finley, R.E.

govt

Sandia National Lab. NM (USA).

SUMMARY OF GEOCHEMICAL MEASUREMENTS TAKEN IN AND ARO G-TUNNEL UNDERGROUND FACILITY, NTS.

May 1987. 153 p. 87/05/00

A summary of field and supporting laboratory data co and around the g-tunnel underground facility on the site is presented to provide information concerning of tuffs to contain radioactive wastes. GEOLOGY: tuff, containment.

Jones, G.M.; Blackey, M.E.; Rice, J.E.; Murphy, V.J. E.N.; Fisk, P.S.; Bromery, R.W. priv/govt Weston Geophysical Corp. MA (USA).; Nuclear Regulato

Commission, Washington DC (USA).
SURVEY OF GEOPHYSICAL TECHNIQUES FOR SITE CHARACTERI

BASALT, SALT AND TUFF.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION

July 1987. 147 p.

87/06/00

Geophysical techniques may help determine the nature of faulting in the target areas, along with structur information that would be relevant to questions conc future integrity of a high-level waste repository. GEOLOGY:

Gove, H.E. (Rochester Univ., NY. Nuclear Structure R

TANDEM-ACCELERATOR MASS-SPECTROMETRY MEASURMENTS OF AND OSIUM ISOTOPES IN DIVERSE NATURAL SAMPLES. Philos. Trans. R. Soc. Lond., Ser. A. 25 August 1987 P. 103-119. 87/08/25
Tandem AMS measurments at Rochester in the past few mainly involved the radioisotopes 36Cl and 129-I, an

mainly involved the radioisotopes 36Cl and 129-I, an on 10Be, in a variety of terrestrial and extraterres samples.

GEOLOGY: natural analogues.

priv | URS/JOHN A. Blume and Associates, Engineers, CA (USA | TECHNICAL BASIS AND PARAMETRIC STUDY OF GROUND MOTIO | RUPTURE HAZARD EVALUATIONS AT YUCCA MOUNTAIN, NEVADA | Sept. 1987. 101 p.

87/09/00

The hazards of ground motion and primary fault ruptu Mountain, were evaluated for earthquake occurrence m consisting of faults and background seismicity. This investigation estimated seismic hazard sensitivity t parameters.

GEOLOGY: seismic.

Wilkins, B.J.S.

govt

Atomic Energy of Canada Limited.
|TECHNICAL NOTE. THE LONG-TERM STRENGTH OF PLUTONIC R
|Reprinted from International Journal of Rock Mechani
|Sciences and Geomechanics Abstracts (1987) 24(6):379
|87/00/00

GEOLOGY: granite.

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE Curtis, D.B.; Capis, J.H.; Perrin, R.E.; Rokop, D.J. National Lab, NM); Fabryka-Martin, J. (Arizona Univ. Dept. of Hydrology and Water Resources); Come, B. (Chapman, N.A. (BGS). govt/acad

Commission of the European Communities, Luxembourg. THE GEOCHEMISTRY OF NATURAL TECHNETIUM AND PLUTONIUM P. 354-355. Natural Analogues in Radioactive Waste I Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham and 1987. 506 p. Radioactive Waste Management Series. 87/00/00

Determination of the abundances of 99TC, 239PU, and provide a useful tool for studying aspects of the ch geologic environments during the last million years.

GEOLOGY: chemistry.

Borns, D.J. govt

Sandia National Lab. NM (USA).
THE GEOLOGIC STRUCTURES OBSERVED IN DRILLHOLE DOE-2

POSSIBLE ORIGINS: WASTE ISOLATION PILOT PLANT.

July 1987. 28 p. 87/07/00

Questions remain as the origins of evaporite deforma the Salado and Castile formations. Two miles north o site, a stacked sequence of depressions was indicate boreholes. Such structures raise questions regarding dissolution and gravity tectonics at the WIPP site. GEOLOGY: geologic disposal.

Black, J.H.; Noy, D.J.; Brightman, M.A.;

assoc Commission of the European Communities, Luxembourg. THE MEASUREMENT OF THE VERTICAL COMPONENT OF HYDRAUL CONDUCTIVITY IN SINGLE-CASED AND UNCASED BOREHOLES. 1987. 67 p. 87/00/00

The project aimed to assess the different existing m measuring vertical hydraulic conductivity in single carrying out some actual field testing. A review of techniques for both field practice and analysis of t is reported. GEOLOGY:

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT Chaturvedi, L. (ed.)

govt New Mexico Health and Environment Dept., Santa Fe, U Environmental Evaluation Group. THE RUSTLER FORMATION AT THE WIPP SITE: REPORT OF A

THE GEOLOGY AND HYDROLOGY OF THE RUSTLER FORMATION A TO THE WIPP PROJECT. Febuary 1987. 80 p.

This workshop contained eight papers characterizing

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT Formation at the WIPP site. GEOLOGY: groundwater, salt, radionuclide migration.

Kimball, J.K.; Jackson, R.E.; Jelacic, A.J.; Rhoderi F. Weston, Inc., Washington, DC)
Post, R.G. (ed.) priv

THE SIGNIFICANCE OF TECTONIC EVENTS AND PROCESSES ON LONG-TERM ISOLATION OF HIGH-LEVEL RADIOACTIVE WASTES P. 147-152. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

The development of tectonic scenarios for a high-lev radioactive waste repository will depend on both the of occurence of a tectonic event and the relationshi the tectonic event and those factors which may be im assessing repository performance. GEOLOGY: seismic.

govt Nuclear Waste Project Office, State of Nevada, Agenc Projects. (USA)

THE STATE OF NEVADA'S GEOTECHNICAL CONCERNS AT THE P MOUNTAIN HIGH-LEVEL WASTE REPOSITORY SITE - AN OVERV NWPO, Carson City,

00/00/00

Nevada geologists and engineers have identified a se extremely complex issues to be addressed in characte the Yuca Mountain site for a nuclear waste reposito cases, available knowledge of geohydrological processufficient to fully understand and resolve these issuature of the repository program requires that the generalized models of groundwater waste migration. Generalized models of groundwater

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION

acceptable for predicting repository performance. GEOLOGY: hydrogeology. Capitol Complex, Carson City, Nevada 89710 anne

Morner, Nils-Axel

acad Paleogeophysics and Geodynamics, Geologiska Institut University of Stockholm. (Sweden).

THE SWEDISH FAILURE IN DEFINING AN ACCEPTABLE BEDROC FOR NUCLEAR WASTE DEPOSITION.

Geologiska Foreningens i Stockholm Forhandlugar, Sto

April,1989, 8pp.

89/04/15 Observational data of crystalline bedrock in Sweden significant earth movements of recent (post-glacial) evidence should preclude the concept of deep geologi containment of nuclear waste.

GEOLOGY: crystalline, geologic disposal. Stockholm University, 10691 Stockholm, Sweden

REFERENCE

anne

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT Wayland, J.R.; Lee, D.O.

govt Sandia National Lab. NM (USA).

THEORETICAL DEVELOPMENT FOR THE MAPPING OF MOISTURE HEATED BLOCK EXPERIMENT.

February 1987. 50 p.

87/02/00

Mathematical expressions are developed for utilizati analysis of field data. Expressions are given for an zones and for layer earth models bounded on four sid reflecting planes. The purpose of this document is p for those knowledgeable in electromagnetic theory, t background to extend the buried electrode concept to applications.

GEOLOGY: modelling.

Orlander, D.; Machiels, A.; Yagnik, S. (Univ. of Cal Berkely).

acad

Pacific Northwest Lab. WA (USA).
THERMAL GRADIENT MIGRATION OF BRINE INCLUSIONS IN SA Proceedings of Salt Repository Project's Workshop on Migration. March 1987, p. 24-25, Appendix/C. 75-C.82

87/03/00 An apparatus was used to measure velocities of inclu synthetic single crystals (NACL and KCL) and in natu salt under various conditions of temperature gradien uniaxial stress.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE

|GEOLOGY: thermodynamics, salt.

Durham, W.B.; Heard, H.C.; Boro, C.O.; Keller, K.T.; Trimmer, D.A.

govt

Lawrence Livermore National Lab. CA (USA); Battelle Inst. Columbus, OH (USA).
THERMAL PROPERTIES OF PERMIAN BASIN EVAPORITES TO 49

TEMPERATURE AND 30 MPA CONFINING PRESSURE.

Mar 1987. 85 p.

87/03/00

Laboratory measurements of the thermal conductivity diffusivity of four rock salts, two anhydrites, and dolomites bordering cycle 4 and cycle 5 bedded salt in the Permian basin in Deaf Smith County, Texas, we GEOLOGY: thermodynamics.

Ohnishi, Y.; Kobayashi, A.; Nishigaki, M. (Kyoto Uni acad

THERMO-HYDRO-MECHANICAL BEHAVIOR OF ROCKS AROUND AN

P. 207-210. Proceedings of the 6th International Con Mechanics. Accord, MA (USA). A.A. Balkema Publishers 87/00/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

This paper describes the coupled thermo-hydro-mechan analytical method with application to the Stripa pro buffer mass test and the macropermeability experimen to evaluate the capability of the method. GEOLOGY: buffers.

Holloway, A.L.; Soonawala, N.M.; Collett, L.S. govt

Atomic Energy of Canada Limited.

THREE-DIMENSIONAL FRACTURE MAPPING IN GRANITE EXCAVA GROUND-PENETRATING RADAR.

Reprinted from CIM Bulletin (December 1986) 79(896): 86/12/00

GEOLOGY: granite.

Kawamura, R. (Japan Information Service, Ltd., Toky priv

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT THREE-DIMENSIONAL GROUNDWATER FLOW AND ADVECTION DIF FOR TREATING DECAY CHAIN OF RADIOACTIVE MATERIALS BY ELEMENT METHOD. J. Nucl. Sci. Technol. (Tokyo) (Nov. 1987). V. 24(11

87/11/00

The present work should permit accurate estimation o and diffusion behavior to be expected of high- and l radioactive wastes in geological formations of compl GEOLOGY: groundwater.

Wilkins, B.J.S.; Liner, Y.; Rigby, G.L.

govt

Atomic Energy of Canada Limited.

TIME-DEPENDENT MICROCRACKING IN PLUTONIC ROCK DUE TO

NUCLEAR-FUEL WASTE VAULT.

1985. 8 p. Proceedings of the 26th U.S. Symposium on Mechanics, South Dakota School of Mines and Technolo City, SD, p. 479-486, 26-28 June 1985.

85/00/00

GEOLOGY: thermodynamics, granite.

Handin, J.

acad

Texas A & M Research Foundation. (USA).
TRANSIENT CREEP OF REPOSITORY ROCKS, FINAL REPORT: M

CREEP LAWS FOR ROCK SALT.

Battelle Memorial Inst. Report ONWI-550. Sept. 1984.

84/09/00

Transient creep and deformation of rock salt from Av LA, was analyzed. Cores were tested in triaxial comp confining pressures of 3,4 and 20 MPa, temperatures C, and constant strain rates of 10 to the -4, -5, -6 model was developed from the results to predict the

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT relaxation, constant stress rate, and constant stres GEOLOGY: modelling.

McMillan, K.; Cross, R.W.; Long, P.E. (Rockwell Hanf Operations, Richland, WA)

TWO-STAGE VESICULATION IN THE COHASSETT FLOW OF THE BASALT, SOUTH-CENTRAL WASHINGTON. Geology. September 1987. V.15(9) P. 809-812.

87/09/00

The cohassett flow in south-central Washington is co

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

possible host for a nuclear waste repository at the and is being investigated as part of the basalt wast project.

GEOLOGY: basalt.

Rasmussen, T.C.; Evans, D.D. (comps.)

govt/acad Arizona University, Tucson, Dept. of Hydrology and W Resources; Nuclear Regulatory Commission, Washington of Engineering.

UNSATURATED FLOW AND TRANSPORT THROUGH FRACTURED ROC HIGH-LEVEL WASTE REPOSITORIES: FINAL REPORT. PHASE 2 May 1987. 500 p.

87/05/00

In response to high-level waste repository licensing US regulatory commission, this report examines and p insights into physical characteristics and methodolo performance assessment of candidate sites in unsatur fractured rock.

GEOLOGY: groundwater, fractures.

Ivanovich, M.; Wilkins, M.A.

UKAEA Harwell Lab. Chemistry Div.; Department of the

London, (UK).
URANIUM SERIES DISEQUILIBRIUM MEASUREMENTS AT MOL, B WHITESHELL. FINAL COMBINED REPORT.

July 1987. 26 p. 87/07/00

Measurements of uranium series disequilibrium in gro derived from sand layers above and below the boom cl in north east Belgium are analyzed in terms of urani and radium isotopic geochemistries, water types, and mixing in the regional groundwater systems. GEOLOGY: sand, clay, groundwater.

Peterson, E.W.; Lagus, P.L.; Lie, K.

S-Cubed. La Jolla, CA (USA).
WIPP (WASTE ISOLATION PILOT PLANT) HORIZON FREE FIEL TRANSPORT CHARACTERISTICS.

PUBLISH DATE ABSTRACT December 1987. 105 p. 87/12/00

This report describes the first attempt to measure t brine transport characteristics of the host rock. Th which have been used to estimate the brine permeabil

KEYWORDS LOCATION REFERENCE suggest free field pore pressure values. GEOLOGY: radionuclide migration.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Saulnier, G.J.Jr.; Freeze, G.A.; Stensrud, W.A. priv/govt

Întera Technologies, Inc. Austin, TX; Sandia Nationa (USA) .

WIPP HYDROLOGY PROGRAM: WASTE ISOLATION PILOT PLANT, NEW MEXICO: HYDROLOGIC DATA REPORT NO. 4.

February 1987. 447 p. 87/02/00

Hydrologic data report no. 4 contains descriptions o aguifer tests conducted by hydro chem in 1984.

GEOLOGY: hydrology.

Knauss, K.G. (Lawrence Livermore National Lab., CA). Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA)

ZEÓLITIZATION OF GLASSY TÒPOPÁH SPRING TUFF UNDER HY

CONDITIONS.

P. 737-745. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

87/00/00

In support of the Nevada Nuclear Waste Storage Inves Project, experiments were conducted to study the eff generated by a nuclear waste repository in densely w devitrified tuff on the underlying, compositionallyglassy tuff at Yucca Mountain. GEOLOGY: tuff.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Elders, W.A. (California Univ., Riverside. Inst. of and Planetary Physics); Come, B. (CEC); Chapman, N.A.

Commission of the European Communities, Luxembourg. A NATURAL ANALOGUE FOR NEAR-FIELD BEHAVIOR IN A HRADIOACTIVE WASTE REPOSITORY IN SALT: THE SALTON SAE FIELD. CALIFORNIA. USA.

FIELD, CALIFORNIA, USA.
P. 342-353. Natural Analogues in Radioactive Waste D
Proceedings of a Symposium Organized by the CEC and
Brussels, BE, on 28-30 April 1987. London. Graham an
1987. 506 p. Radioactive Waste Management Series.
87/04/00

In the future our data can be also used in validatin assessment codes which couple geochemistry and trans processes, and in design of waste packages and backf compositions.

RADIONUCLIDE MIGRATION: salt, natural analogues.

Alexander, W.R.; MacKenzie, A.B. (Scottish Univ. Res Reactore Center, Glasgow, UK); Scott, R.D.; McKinley (Eidgenoessesches Inst. fuer Reaktorforschung, Wuere Switzerland)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

À NATURAL ANALOGUE STUDY OF RADIONUCLIDE MIGRATION I CONDUCTION FRACTURES IN A CRYSTALLINE ROCK.

P. 76-77. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only.

RADIONUCLIDE MIGRATION: natural analogues, geology.

|Peaudecerf, P.; Jebrak, M.; Lemiere, B.; Sureau, J.F |A.M.; Blanc, P.L.; Come, B. (CEC); Chapman, N.A. (BG

Commission of the European Communities, Luxembourg. A QUANTITATIVE APPROACH TO EXCHANGE PHENOMENA BETWEE TEMPERATURE HYDROTHERMAL SOLUTIONS AND GRANITIC ROCK METHODOLOGY AND PRELIMINARY STUDIES IN THE ENTRAYGUE P. 442-443. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

A study has been undertaken on fossil geothermal systo determine the various characteristics of migration

elements analogous to the radionuclides. RADIONUCLIDE MIGRATION: granite.

KEYWORDS LOCATION REFERENCE AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Hodgkinson, D.P.; Robinson, P.C.; Tasker, P.W. (UKAE Energy Research Establishment, Harwell)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

A REVIEW OF MODELLING REQUIREMENTS FOR RADIOLOGICAL P. 150. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00 Published in summary form only RADIONUCLIDE MIGRATION: modelling.

Olander, D.R. govt

A STUDY OF THERMAL-GRADIENT-INDUCED MIGRATION OF BRI IN SALT: FINAL REPORT.

Battelle Memorial Inst. Report ONWI-538. August 1984 84/08/00

The migration of brine inclusion in salt under impostemperature gradients was analyzed to properly evaluperformance of a future salt repository for radioact Migration velocities of inclusions were found to be temperature, temperature gradient, and inclusion sha RADIONUCLIDE MIGRATION: salt.

Hoetzel, H.; Winkler, R.

Gesellschaft fuer Strahlen und Umweltforschung (FRG) ACTIVITY CONCENTRATIONS OF 226RA, 228RA, 210PB, 40K, THEIR TEMPORAL VARIATIONS IN SURFACE AIR.

Journal of Environmental Radioactivity. 1987. V. 5(6 87/00/00

Activity concentrations of the long-lived natural ra 226RA, 228 RA, 40K, and of 7BE, in surface air were twice monthly at a semi-rural location of 10 km nort for at least three years. The contribution of local activity to the air activity concentrations of these radionuclide and of natural uranium is discussed. RADIONUCLIDE MIGRATION:

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

acad

AN ANALOGUE VALIDATION STUDY OF NATURAL RADIONUCLIDE CRYSTALLINE ROCKS USING URANIUM-SERIES DISEQUILIBRIU Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 91. 85/09/00

RADIONUCLIDE MIGRATION: natural analogues.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION Biddle, P.; Rees, J.H.

govt

UKAEA Harwell Lab. Chemistry Div.; Department of the London, (UK).

AN INITIAL STUDY OF THE BEHAVIOR UNDER REPOSITORY CO INACTIVE COMPONENTS OF NUCLEAR WASTES.

February 1988. 80 p.

88/02/00

This review extends the appreciation of repository b include the inactive components of wastes and their products. The effect of degradation products on the of long-lived radionuclides and any active daughters sorption on surfaces of the repository are assessed; RADIONUCLIDE MIGRATION:

Carlyle, S.; Ruegger, B.; Thegerstroem, C.; Wanner, Energy Agency, Paris, France)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

AN OVERVIEW OF OECD/NEA ACTIVITIES RELATED TO THE AS RADIONUCLIDE MIGRATION IN THE GEOSPHERE.

P. 182-183. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only RADIONUCLIDE MIGRATION:

Thegerstrom, C.; Carlyle, S.; Ruegger, B.; Wanner, H (Organization for Enconomic Co-operation and Develop Energy Agency, Paris, France) assoc

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

AN OVERVIEW OF OECD/NEA ACTIVITIES RELATED TO THE AS RADIONUCLIDE MIGRATION IN THE GEOSPHERE.

Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988. 197-217.

88/05/00

Studies and projects related to the performance asse nuclear waste repositories including the assessment geosphere barrier, constitute a major part of presen activities in the area of radioactive waste manageme RADIONUCLIDE MIGRATION: monitoring, disposal and sto alternatives.

Come, B. (Commission of the Euroean Communities, Bru Belgium)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

AN OVERVIEW OF THE COMMUNITY PROJECT MIRAGE II (MIGR RADIONUCLIDES IN THE GEOSPHERE, 1985-1989).

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE P. 168. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00 Published in summary form only

AUTHOR TYPE ORGANIZATION TITLE

Van Genuchten, M.; Parker, J.C.; Kool, J.B. govt

PUBLISH

Los Alamos National Lab. NM (USA).
ANALYSIS AND PREDICTIONS OF WATER AND SOLUTE TRANSPO

RADIONUCLIDE MIGRATION:

DATE ABSTRACT LYSIMETER.

Modelling Study of Solute Transport in the Unsaturat Workshop Proceedings. April 1987. p. 4-36. 87/04/00

KEYWORDS LOCATION REFERENCE The use of simple deterministic models to describe t transport behaviour of crushed Bandelier Tuff in lar lysimeters is investigated. RADIONUCLIDE MIGRATION: tuff.

AUTHOR TYPE ORGANIZATION TITLE **PUBLISH** DATE ABSTRACT

Apted, M.J.; Liebetrau, A.M.; Engel, D.W. priv Pacific Northwest Lab. WA (USA).
ANALYSIS OF SPENT FUEL AS A NUCLEAR WASTE FORM.

January 1987. 29 p. 87/01/00

The release of radionuclides from spent fuel has bee

KEYWORDS LOCATION REFERENCE for three different repository sites and waste packa RADIONUCLIDE MIGRATION: containment.

AUTHOR TYPE ORGANIZATION TITLE

Gureghian, A.B.

acad Battelle Memorial Inst. OH (USA).

PUBLISH DATE ABSTRACT ANALYTICAL SOLUTIONS FOR MULTIDIMENSIONAL TRANSPORT FOUR-MEMBER RADIONUCLIDE DECAY CHAIN IN GROUND WATER Jan 1987. 165 p.

87/01/00

Analytical solutions based on the Laplace and Fourie transformation techniques are presented for the twothree-dimensional space-time-dependent convective-di transport of a four-member radionuclide decay chain homogenous porous media.

RADIONUCLIDE MIGRATION: groundwater.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Sato, K.; Ito, Y.; Shimizu, T. (Kumagai Gumi Co. Ltd

TITLE

APPLIED STUDY ON TRANSFER OF RADIOACTIVE NUCLIDES AN DIFFUSION AROUND RADIOACTIVE WASTE DISPOSAL CAVERN I FRACTURED ROCK MASS. P. 245-248. Proceedings of the 6th International Con

PUBLISH DATE ABSTRACT

Mechanics. Accord, MA (USA). A.A. Balkema Publishers 87/00/00 This paper presents the numerical analysis of the he

and nuclide migration around a disposal cavern of ra wastes in rock mass. RADIONUCLIDE MIGRATION: geology.

AUTHOR TYPE ORGANIZATION

Rundberg, R.S. govt

TITLE

Los Alamos National Lab. NM (USA).

PUBLISH DATE

ASSESSMENT REPORT ON THE KINETICS OF RADIONUCLIDE AL YUCCA MOUNTAIN TUFF.

July 1987. 95 p. 87/07/00

The kinetics of sorption was measured by observing tradionuclides by tuff wafers and crushed tuff as a f ABSTRACT

RADIONUCLIDE MIGRATION: tuff.

KEYWORDS LOCATION REFERENCE

| Nakayama, S.; Takagi, I.; Higashi, K. (Kyoto Univ.,

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Faculty of Engineering). acad

BENCHMARK PROFILES FOR ADVECTION-DISPERSION MIGRATIO RADIONUCLIDES THROUGH TWO-LAYERED GEOLOGIC MEDIA.
J. Environ. Radioact. 1987. V.5(2) P.87-103. 87/00/00

Concentration profiles are presented for one-dimensi migration of radionuclides through two-layered geolo RADIONUCLIDE MIGRATION: geology.

Kopp, P.; Burkart, W. (Eidgenoessisches Inst. fuer Reaktoforschung, Wuerenlingen, Switzerland)

Technische Univ. Muenchen, Garching, Germany, F.R.; the European Communities, Brussels, (Belgium). BIOAVAILABILITY AND UPTAKE OF RADIUM-226 BY PLANTS F COMPETITION OF ALKALINE EARTH ELEMENTS. (TRANSFER FA P.101. Chemistry and Migration Behavior of Actinides Products in the Geosphere Abstracts, 1987, 196 p. Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION:

Benson, A.B.; Shook, L. acad

BLOWING IN THE WIND: RADIOACTIVE CONTAMINATION OF TH THE HANFORD NUCLEAR RESERVATION. Hanford Education Action League Report.

There is strong, but not conclusive, evidence that c eastern Washington are suffering serious radioactive contamination of the soil due to discharges from the Nuclear Reservation. Testing is called for in this p RADIONUCLIDE MIGRATION: health, public participation

KEYWORDS

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT priv/govt
Westinghouse Electric Corp., PA (USA). Office of Nuclisolation, (USA).
BRINE MIGRATION TEST FOR ASSE MINE, FEDERAL REPUBLIC FINAL DESIGN REPORT.
August 1987. 315 p.
87/08/00

A test designed to simulate the heating and radiatio

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT potential repository, and the subsequent effects on b migration, has been implemented at the ASSE site. RADIONUCLIDE MIGRATION: design.

Dayal, R.; Klein, R.; Jakubick, A.T. (Ontario Hydro, govt
Technische Univ. Muenchen, Garching, Germany, F.R. I
Radiochemie; Commission of the European Communities,
(Belgium).
C-14 ATTENUATION IN CEMENTITIOUS BACKFILL MATERIALS.
P. 63. Chemistry and Migration Behavior of Actinides
Products in the Geosphere. Abstracts. 1987. 196 p.
87/00/00
Published in summary form only.
RADIONUCLIDE MIGRATION: backfill, cement.

Avci, H.I.

CALCULATION OF RADIONUCLIDE INVENTORIES IN A NUCLEAR DISPOSAL VAULT WITH LEAKAGE.
Trans. Am. Nucl. Soc. 1987. V. 54 P.106-107.
87/00/00
A method has been developed and a small computer pro

A method has been developed and a small computer pro LDK has been written to calculate the inventories and durations of radionuclides in a nuclear waste disposwhen leakage from the vault occurs.

RADIONUCLIDE MIGRATION: modelling.

Commission of European Communities. Luxembourg. CEC COORDINATED PROJECT MIRAGE: MIGRATION OF RADIONU GEOSPHERE.

CEC Report EUR 9304 EN. 1984. 66 p. 84/00/00

Radionuclide migration in the biosphere is being stu of the CEC MIRAGE project. Four site-specific monito and associated laboratory work will address the tran radioactivity from conditioned radioactive waste thr different barriers up to the interface between the g the biosphere.

RADIONUCLIDE MIGRATION: modelling.

KEYWORDS

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

Luksic, A.T.

priv

Pacific Northwest Lab. WA (USA). CHARACTERIZATION OF ACTIVATED METALS IN SPENT FUEL H January 1988. 9 p.

88/01/00

The subject of this paper is to describe work that i being done at PNL to measure radionuclide activities activated metals.

RADIONUCLIDE MIGRATION:

Livens, F.R. (Inst. of Terrestrial Ecology, Merlewoo Station, Grange-Over-Sands, UK); Baxter, M.S. (Scott Universities Research and Reactor Center, Glasgow, U acad

CHEMICAL ASSOCIATIONS OF ARTIFICIAL RADIONUCLIDES IN SOILS.

J. Environ. Radioact. 1988. V.7(1) p. 75-86.

88/00/00

The distributions of radionuclides in the surface la soils of contrasting types from West Cumbria, UK hav studied in detail.

RADIONUCLIDE MIGRATION:

Higgo, J.J.W. (Imperial Coll. of Science and Tech., Of Chemistry)

acad

CLAY AS A BARRIER TO RADIONUCLIDE MIGRATION. Prog. Nucl. Energy. 1987. V.19(2) P.173-207. 87/00/00

This paper discusses the factors that influene radio mobility in natural clay materials.

RADIONUCLIDE MIGRATION: clay.

Skytte Jensen, B.; Jensen, H.. (Riscoe National Lab. Denmark)

govt
Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

COMPLEX FORMATION OF RADIONUCLIDES WITH ORGANIC LIGA

FOUND IN GROUND WATER.

P. 133-134. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987.

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

87/00/00
Published in summary form only.
RADIONUCLIDE MIGRATION: groundwater.

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

| Jansen, G.; Cloke, P.L.; Bloom, S.G. (Battelle Memor | Columbus, OH)

acad

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

COUPLING OF THE WASTE PACKAGE SOURCE TERM TO RADIONU MIGRATION OF ACTNIDE CHAINS. (GEOCHEMICAL CODE EQ6). P. 88-89. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only.

RADIONUCLIDE MIGRATION:

Skytte Jensen, B. (Risoe National Lab., Roskilde, De govt

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

DANISH APPROACHES TO THE ASSESSMENT OF RADIONUCLIDE

THE GEOSPHERE.

P. 169-170. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987.

Published in summary form only RADIONUCLIDE MIGRATION:

Rasilainen, K.; Vuori, S. (Valtion Teknillinen Tutki Helsinki, Finland)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

DESCRIPTION OF VARIOUS MIGRATION PHENOMENA BY EFFECT

RETARDATION FACTOR.

P. 85. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p.

87/00/00

Published in summary form only.

RADIONUCLIDE MIGRATION:

AUTHOR
TYPE
ORGANIZATION
TITLE

|Lanza, E. |assoc |CEC Joint Research Centre. (Italy). |DEVELOPMENT OF A TEST METHOD FOR LEACHING GLASSES IM PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION

POROUS MEDIA.

European Applied Research Report. 1984. V. 5(4) p. 784/00/00

A leaching apparatus was developed to evaluate the l properties of glass incorporating high-level radioac when embedded in wet porous media.

RADIONUCLIDE MIGRATION: leaching, glass.

priv/govt Ontarion Hydro. (Canada). DIFFUSION FROM CYLINDRICAL WASTE FORMS. 1985. 32 p. 85/00/00

RADIONUCLIDE MIGRATION:

Meier, H.; Zimmerhackl, E.; Hecker, W.; Zietler, G.; (Staatliches Forschungsinstitut fuer Geochemie, Bamb Germany, F.R.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).
DIFFUSION MEASUREMENTS OF RADIONUCLIDES IN SEDIMENT P. 66. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p.

Published in summary form only. RADIONUCLIDE MIGRATION: geology.

acad

DIFFUSION OF NEPTUNIUM IN SIMULATED HIGH-LEVEL WASTE J. of Nuclear Science & Technology. - Japan, Nov. 198 992-1001. 86/11/00

RADIONUCLIDE MIGRATION: glass.

REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS | Christiansen, B.; Torstenfelt, B. (Chambers Univ., S acad

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

DIFFUSION OF NICKEL, STRONTIUM, IODINE, CESIUM AND A LOOSELY COMPACTED BENTONITE AT HIGH pH.

P. 24. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION:

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE priv/govt

Ontario Hydro. (Canada).

DIFFUSION OF RADIONUCLIDES IN NON-METALLIC SOLIDS OF

Chemical Research Department, Ontario Hydro. 1986. 2 86/00/00

RADIONUCLIDE MIGRATION:

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Light, W.B.; Lee, W.W.L.; Chambre, P.L.; Pigford, T. California, Berkeley). acad

EFFECTS OF SORPTION AND DECAY ON STEADY-STATE RADION RELEASE RATES.

Trans. Am. Nucl. Soc. 1987. V. 54 P.108-109.

87/00/00

In this paper the authors analyze the effects of equ sorption and radioactive decay on steady-state mass rates from waste packages in nuclear waste repositor RADIONUCLIDE MIGRATION: containment.

Sheppard, M.I.; Thibault, D.H.; Mitchell, J.H. govt

Atomic Energy of Canada Limited.

ELEMENT LEACHING AND CAPILLARY RISE IN SANDY SOIL CO

EXPERIMENTAL RESULTS.

Journal of Environmental Quality (July-Sept. 1987)

p. 273-284. This study examines both the leaching and capillary

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION I, Np, Cs, Cr, and Mo through a sandy soil. RADIONUCLIDE MIGRATION:

Looney, B.B.; Grant, M.W.; King, C.M.

govt Savannah River Lab. SC (USA).

ESTIMATION OF GEOCHEMICAL PARAMETERS FOR ASSESSING S TRANSPORT AT THE SAVANNAH RIVER PLANT: ENVIRONMENTAL DOCUMENT.

March 1987. 74 p.

87/03/00

Geochemical parameter estimates to be used in assess subsurface transport of chemicals from Savannah Rive (SRP) waste sites are presented.

RADIONUCLIDE MIGRATION: chemistry.

Addis, R.P.

govt

Šavannah River Lab. SC (USA).

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE **AUTHOR** TYPE

ORGANIZATION

TITLE PUBLISH DATE

KEYWORDS LOCATION REFERENCE

ABSTRACT

AUTHOR

TYPE ORGANIZATION EVALUATION OF SAVANNAH RIVER LABORATORY ATMOSPHERIC MODELS.

1987. 5 p. 87/00/00

The results of 14 daytime mats, conducted in predomi convectively unstable conditions, showed that puff-p simulated the plume width well.

RADIONUCLIDE MIGRATION:

Carleson, T.E.; Drown, D.C.; Hart, R.E.; Peterson, M

Pacific Northwest Lab. WA (USA). EVALUATION OF THE TRANSPORT AND RESUSPENSION OF A SI NUCLEAR WASTE SLURRY: NUCLEAR WASTE TREATMENT PROGRA Sept. 1987. 134 p.

87/09/00

Research was conducted on the transport and resuspen simulated high-level nuclear waste slurry.

RADIONUCLIDE MIGRATION: chemistry.

Hofmann, B.; Peters, T.J.; Dearlove, J.P.L.; Lever, Ivanovich, M.; Green, D.C.; Baertschi, P.

Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg.

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

EVIDENCE OF FOSSIL AND RECENT DIFFUSIVE ELEMENT MIGR REDUCTION HALOES FROM PERMIAN RED-BEDS OF NORTHERN S P. 217-238. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series.

Migration mechanisms and accumulation rates of urani thorium may yield important parameters for safety as modelling for radioactive waste disposal. RADIONUCLIDE MIGRATION: modelling, geology, safety a

Robinson, P.C.; Hodgkinson, D.P. (UKAEA Atomic Energ Establishment, Harwell. Theoretical Physics Div.).

EXACT SOLUTIONS FOR RADIONUCLIDE TRANSPORT IN THE PR PARAMETER UNCERTAINTY.

Radioact. Waste Manag. Nucl. Fuel Cycle. November 19 P. 283-311. 87/11/00

This paper presents some exact solutions to equation the time-dependent risk arising from the migration o radionuclides from an underground repository. RADIONUCLIDE MIGRATION: risk analysis.

McCauley, V.S.; Raines, G.E. govt

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION Office of Nuclear Waste Isolation. (USA).

EXPECTED BRINE MOVEMENT AT POTENTIAL NUCLEAR WASTE R SALT SITES.

August 1987. 152 p.

87/09/00

The BRINEMIG brine migration code predicts rates and of brine migration to a waste package emplaced in a nuclear waste repository in salt. The BRINEMIG code explicit time-marching finite difference code that s balance equation and uses the JENKS equation to pred velocities of brine migration.

RADIONUCLIDE MIGRATION: modelling.

De Regge, P.; Henrion, P.; Monsecour, M.; Put, M. (S voor Kernenergie sck/cen, Mal, Belgium); Cremers, A. (Laboratorium vor Colloidale Scheikunde, Belgium)

TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION FACTS AND FEATURES OF RADIONUCLIDE MIGRATION IN BOOM Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988. 1-20.

88/05/00

The evolution which took place during ten years of r the behavior of radionuclides in boom clay is descri RADIONUCLIDE MIGRATION: clay.

Regge, P. de; Cremers, A.; Henrion, P.; Monsecour, M (Centre D'Etude de L'Energie Nucleaire, Mol, Belgium acad

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Relgium).

(Belgium).
FACTS AND FEATURES OF RADIONULCIDE MIGRATION IN BOOM
P. 165-166. Chemistry and Migration Behavior of Acti
Fission Products in the Geosphere. Abstracts. 1987.
87/00/00

Published in summary form only.

RADIONUCLIDE MIGRATION: geology, clay.

acad

FLOW AND TRACER EXPERIMENTS IN CRYSTALLINE ROCKS: RE SEVERAL SWEDISH IN SITU EXPERIMENTS.
Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 627. 85/09/00

RADIONUCLIDE MIGRATION: groundwater.

Peach, C.J.; Spiersd, C.J.; Tankink, A.J.; Zwart, H. assoc Commission of the European Communities, Luxembourg. TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

FLUIDS AND IONIC TRANSPORT PROPERTIES OF DEFORMED SA 1987. 97 p. 87/00/00

This is a final report on work done on the transport of salt during the period 1 January 1984 to 30 June RADIONUCLIDE MIGRATION: salt.

Glasbergen, I.P. (Rijksinstituut voor de Volksgezond Miliehygiene, Bilthoven, Netherlands)

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

GEOSPHERE MIGRATION STUDIES AS SUPPORT OF THE COMPAR POTENTIAL DISPOSAL SITES OF RADIOACTIVE WASTE IN ROC P. 180-181. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987.

Published in summary form only RADIONUCLIDE MIGRATION: salt.

|Warnecke, E. (Physikalisch- Technische Bundesanstalt | F.R.); Hild, W. (Gesellschaft fuer Strahlen und Umwe | M.B.H., Germany, F.R.)

GERMAN EXPERIENCE IN THE FIELD OF RADIONUCLIDE MIGRA GEOSPHERE.
Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988.

115-144. 88/05/00

Basic Research and model development as well as site investigations being carried out in the Federal Repu Germany are reviewed.

RADIONUCLIDE MIGRATION: modelling, siting.

acad

GROUNDWATER HYDROLOGY AND SUBSURFACE MIGRATION OF RA AT A COMMERCIAL RADIOACTIVE WASTE BURIAL SITE, WEST YORK.

USGS Professional Paper 1325. 1986. 89 p. 86/00/00

RADIONUCLIDE MIGRATION: hydrology.

Phinney, D.L.; Oversby, V.M. (Lawrence Livermore Nat CA)
govt

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE **PUBLISH** DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS P. 65. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p.

Published in summary form only.

RADIONUCLIDE MIGRATION:

Boback, M.W.; Dugan, T.A.; Flemingo, D.A.; Grant, R.

priv

Westinghouse Materials Co. OH (USA).

HISTORY OF FMPC RADIONUCLIDE DISCHARGES.

May 1987. 211 p.

87/05/00

This report presents information on the discharge of radionuclides from the feed materials production cen Discharges to both air and water have occurred, but releases are emphasized because inhalation is the pr potential exposure route for most offsite residents

RADIONUCLIDE MIGRATION: health.

Kim, J.I.; Buckau, G.; Zhuang, W. (Institut Fuer Rad Garching, West Germany).

Bates, J.K.; Seefeldt, W.B. (eds.).

acad

Argonne National Lab. Il (USA).
HUMIC COLLOID GENERATION OF TRANSURANIC ELEMENTS IN

AND THEIR MIGRATION BEHAVIOUR.

P. 747-756. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

The generation of humic colloids of Am (III) has bee investigated in Gorleben groundwaters containing dif

amounts of humic substances.

RADIONUCLIDE MIGRATION: groundwater.

acad

IMPLICATIONS OF SEDIMENTOLOGICAL AND HYDROLOGICAL PR THE DISTRIBUTION OF RADIONUCLIDES: THE EXAMPLE OF A NEAR RAVENGLASS, CUMBRIA.

Estuarine Coastal & Shelf Science, 1986. V 22 p. 529

86/00/00

RADIONUCLIDE MIGRATION: geology, salt.

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION acad

INFLUENCE OF REDOX ENVIRONMENTS ON THE GEOCHEMICAL B RADIONUCLIDES.
Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 709. 85/09/00

RADIONUCLIDE MIGRATION: chemistry, geology.

Vakulovskii, S.M.; Nikitin, A.I.; Chumichev, V.B. acad

INFLUENCE OF THE ARRIVAL OF RADIOACTIVE INDUSTRIALLY NORTH SEA WATER UPON THE RADIATION CONDITIONS IN THE Sov. At. Energy. Aug. 1987. V. 62(2) p. 126-130. 87/08/00

The authors present and evaluate data from a four ye monitoring the movement of radioactive effluents for radiochemcial plants of western Europe from the Nort Baltic Sea and determine the concentrations at vario along this pathway for 134CS, 137CS, 90SR isotopes. RADIONUCLIDE MIGRATION:

Phinney, D.L.; Ryerson, F.J.; Oversby, V.M.; Lanford Aines, R.D.; Bates, J.K. (Lawrence Livermore Nationa Bates, J.K.; Seefeldt, W.B. (eds.).

Argonne National Lab. Il (USA). INTEGRATED TESTING OF THE SRL-165 GLASS WASTE FORM. P. 433-446. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

Integrated testing of the important components of a form waste package has been performed in order to ga understanding of the processes of radionuclide relea transport in the near field environment.

RADIONUCLIDE MIGRATION: glass.

|Nowak, E.J.; McTigue, D.F. |govt |Sandia National Lab. NM (USA).

TITLE

PUBLISH DATE ABSTRACT INTERIM RESULTS OF BRINE TRANSPORT STUDIES IN THE WA PILOT PLANT.
May 1987. 88 p.
87/05/00

A preliminary analysis of brine movement in a radioa repository was begun with a highly idealized fluid f

KEYWORDS LOCATION REFERENCE for porous media. The results and need for further s discussed.
RADIONUCLIDE MIGRATION:

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT Hollamnn, A.; Tittel, G.; Warnecke, E. (Physikalisch Bundesanstalt, Braunswieg, Germany, F.R.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

INTERRELATION BETWEEN THE SORPTION DATA OF RADIONUCL NATURAL SYSTEMS AND THE BOUNDARY CONDITIONS. (KONRAD GORLEBEN)

P. 86. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION:

Bolgarev, V.P.; Rogozine, Y.M.; Bryzgalova, R.V. govt

INVESTIGATION OF TRANSFER PROCESSES OF RADIONUCLIDES POROUS MEDIUM.

Radiokhimiya. 1987. v. 29(3) p. 372-376.

87/00/00

The equation simulating radionuclide transfer in a c with porous medium by a diffusion mechanism taking i porosity, tortuosity, the process of equilibrium sor radioactive decay is suggested.

RADIONUCLIDE MIGRATION:

INVESTIGATION OF TRANSPORT-PROCESSES ALONG THE ELBE CHERNOBYL RADIONUCLIDES AS TRACERS.

Environmental Technology Letters. April 1988. V. 9(4 88/04/00

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT RADIONUCLIDE MIGRATION:

Uematsu, K. (Power Reactor and Nuclear Fuel Developm Tokyo, Japan)

JAPANESE APPROACHES TO THE ASSESSMENT OF RADIONUCLID IN THE GEOSPHERE.

Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988.

145-158. 88/05/00

In the last five years, the identification of potent geological formation in Japan was performed includin

KEYWORDS LOCATION REFERENCE key-study on radionuclide migration within the geosp RADIONUCLIDE MIGRATION: geology.

AUTHOR
TYPE
ORGANIZATION
TITLE

Thompson, J.L. govt
Los Alamos National Lab. NM (USA).

LABORATORY AND FIELD STUDIES RELATED TO THE RADIONUC MIGRATION PROJECT: PROGRESS REPORT, OCT. 1, 1985- SE

PUBLISH DATE ABSTRACT

August 1987. 30 p. 87/08/00

In this report we describe the work done at Los Alam of the radionuclide migration project during fiscal RADIONUCLIDE MIGRATION:

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

Thompson, J.L. (comp.) govt

Los Alamos National Lab. NM (USA).
LABORATORY AND FIELD STUDIES RELATED TO THE RADIONUC MIGRATION PROJECT: PROGRESS REPORT, OCTOBER 1, 1986-

30, 1987.

February 1988. 29 P.

PUBLISH DATE ABSTRACT

TITLE

88/02/00

In this report we describe the research done by pers Los Alamos National Lab in support of the radionucli project.

KEYWORDS LOCATION REFERENCE RADIONUCLIDE MIGRATION:

AUTHOR

|Serne, R.J.; Martin, W.J.; McLaurine, S.B.; Airhart, |Legore, V.L.; Treat, R.L.

TYPE

prív

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE Pacific Northwest Lab. WA (USA).
LABORATORY LEACH TESTS OF PHOSPHATE/SULPHATE WASTE G
LEACHATE ADSORPTION TESTS USING HANFORD SEDIMENT.
December 1987. 296 p.

3//12/00

An assessment of the long-term risks posed by grout Hanford requires data on the ability of grout to res of waste species contained in the grout via contact that percolates through the ground.

RADIONUCLIDE MIGRATION: leaching.

Vandergraaf, T.T.; Grondin, D.M.; Drew, D.J.

govt
Atomic Energy of Canada Limited.
LABORATORY RADIONUCLIDE MIGRATION

LABORATORY RADIONUCLIDE MIGRATION EXPERIMENTS AT A S Reprinted from Materials Research Society Symposia P (1988) 112:159-168.

88/00/00

RADIONUCLIDE MIGRATION:

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Doxtader, M.M.; Maroni, V.A.; Beitz, J.V.; Heaven, M Bates, J.K.; Seefeldt, W.B. (eds.). govt

Argonne National Lab. Il. (USA)

LASER PHOTOACOUSTIC SPECTROSCOPY FOR TRACE LEVEL DET ACTINIDES IN GROUNDWATER.

P. 173-184. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

Ultrasensitive laser-based techniques, such as laser photoacoustic spectroscopy (LPAS) and laser induced (LIF), are being developed as analytical methods for trace-level detection and speciation of actinides in typical of those encountered in groundwaters near th repository. In this paper we examine the utility of technique for elucidating the chemical behaviour of present in the near-field environment of the BWIP. RADIONUCLIDE MIGRATION: groundwater.

govt

LEACHIBILITY OF RADIOACTIVE CONSTITUENTS FROM URANIU TAILINGS.

Environment Canada Report EPA 3/MM/2. April 1987. 25

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION 87/04/00

RADIONUCLIDE MIGRATION: leaching.

Mcauley, I.R.

Trinity College. (Ireland).
LEVELS OF CS-137 IN SEDIMENTS DEPOSITED IN INTERTIDA

THE IRISH COAST.

CEC Report EUR 9214 EN. 1984. p. 201-214.

84/00/00

The nuclear reprocessing plant at Sellafield, UK, di radioactive liquid effluent directly into the Irish samples of the intertidal sediments were analyzed to the variation in radiocaesium with depth. Uptake of by sediments is proportional to the activity of the which they are immersed and dependent on partice siz RADIONUCLIDE MIGRATION: chemistry, hydrogeology.

Moltyaner, G.L.; Champ, D.R.

Atomic Energy of Canada Limited.

MASS TRANSPORT IN SATURATED POROUS MEDIA: ESTIMATION PARAMETERS.

87/11/01

RADIONUCLIDE MIGRATION:

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

Jacobs, D.G.

American Institute of Chemical Engineers, (USA).

MCRP SOIL CONTAMINATION TASK GROUP.

American Institute of Chemical Engineers, NY (USA).

87/00/00

This report presents the National Council of Radiati and Measurements' (NCRP) recently established task g contamination to describe and evaluate the migration and modes of radiation exposure that can potentially

to radioactive contamination of soil.

RADIONUCLIDE MIGRATION:

Nakashima, S.; Nakamura, H. (Japan Atomic Energy Res Tokai, Ibaraka. Dept. of Environmental Safety Resear

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

B. (CEC); Chapman, N.A. (BGS). govt

Commission of the European Communities, Luxembourg. MECHANISMS AND QUANTITATIVE EVALUATIONS OF RADIONUCL IN GEOSPHERE.

P. 386-396. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

All these studies have pointed out some geochemical useful to evaluate long-term radionuclide fixation i RADIONUCLIDE MIGRATION: groundwater, granite.

| Mackenzie, A.B.; Scott, R.D.; Williams, T.

acad

Scottish Universities Research and Reactor Centre (S MECHANISMS FOR NORTHWARDS DISPERSAL OF SELLAFIELD WA Nature. (London). Sept. 3, 1987. V. 329(6134) p. 42-87/09/03

Results are presented of a study of radionuclide con in surface intertidal sediments near Sellafield, col during 1984-85 which provide the basis for an estima extent of northwards dispersal of the contaminated s an assessment of the importance of this process relatransport of radionuclides in solution.

RADIONUCLIDE MIGRATION:

Keiling, C.; Essner, V.; Marx, G. (Freie Univ., Berl F.R. Inst. fuer Anoganische und Analytische Chemie)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

MIGRATION AND SORPTION BEHAVIOR OF ACTINIDES IN SYST SALINITY UNDER THE INFLUENCE OF ORGANIC COMPLEXING A P. 105. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE 87/00/00 Published in summary form only. RADIONUCLIDE MIGRATION:

AUTHOR

Ohtsuka, Y.; Takebe, S.; Yamamoto, T.; Wadachi, Y. (Energy Research Inst., Tokai, Ibaraki, Tokai Research Establishment)

TYPE

govt

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION ·

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

MIGRATION BEHAVIOR OF RADIONUCLIDES (60C, 85SR and 1

J. Nucl. Sci. Technol., Tokyo. Febuary 1988. V.25(2) 88/02/00

The migration behavior of radionuclides in aquifer h studied under a steady flow of water by using aguife apparatus.

RADIONUCLIDE MIGRATION: modelling.

Winkler, A.; Bruehl, H.; Trapp, C. (Freie Univ. Berl F.R. Inst. fuer Angewandte Geologie)

acad

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

(Belgium).
MIGRATION BEHAVIOR OF TECHNITIUM IN DIFFERENT ROCKS COMPOSITION OF NATURAL MINERALS.

P. 69. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p.

87/00/00 Published in summary form only. RADIONUCLIDE MIGRATION: geology.

acad

MIGRATION BEHAVIOUR OF U(VI) IN TUFF. Nuclear Waste Management Symposium. Stockholm (Swede

9-11, 1985. p. 763.

85/09/00

RADIONUCLIDE MIGRATION:

Ogawa, H. (Japan Atomic Energy Rsearch Inst., Tokai, Japan) govt

MIGRATION OF 137Cs ADSORBED ON FINE SOIL PARTICLES T LAYER. FILTRATION BY UNSATURATED SANDY SOIL LAYER. J. Nucl. Sci. Technol. Tokyo. March 1988. V.25(3) P. 88/03/00

The experiments on the migration of 137Cs adsorbed o particles in unsaturated sandy soil layers were carr

RADIONUCLIDE MIGRATION:

REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Menager, M.T.; Parneix, J.C.; Petit, J.C. (CEA Centr Nucleaires de Fontenay-aux-Roses, France)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium) . MIGRÁTION OF U, TH AND REE IN A FOSSIL INTRAGRANITIC SYSTEM: IMPLICATIONS FOR THE MOBILITY OF ACTINIDES A RADWASTE DISPOSAL. (AURIAT GRANITE, MASSIF CENTRAL, P. 55-56. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION: geologic disposal.

Ball, T.K.; Basham, I.R.; Hooker, P.J.; Roberts, P.D Geological Survey, Keyworth); MacKemzie, A.B.; Scott (Scottish Universities Research and Reactor Centre, UK); Ivanovich, M. (UKAEA Atomic Energy Research Est Harwell)

govt/acad

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

NATURAL ANALOGUE STUDIES OF RADIONUCLIDE MIGRATION I P. 61-62. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION:

Ivanovich, M.; Longworth, G.; Wilkins, M.A.; Duerden
t,; Nightengale, T.; Edghill, R.B.; Cockayne, D.J.; D
Come, B. (CEC); Chapman, N.B. (BGS).

Commission of the European Communities, Luxembourg. NATURAL ANALOGUE STUDY OF THE DISTRIBUTION OF URANIU NUCLIDES BETWEEN THE COLLOID AND SOLUTE PHASES IN TH HYDROGEOLOGICAL SYSTEM OF THE KOONGARRA URANIUM DEPO AUSTRALIA.

p. 300-313. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

The colloid sampling technique used in the present p

KEYWORDS

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

based on an ultrafiltration system capable of concen particles whose size is greater than 10000 MW and ha for fractionating the concentrated colloids into par

RADIONUCLIDE MIGRATION: hydrogeology, modelling, nat

analoques.

Hooker, P.J.; Chapman, N.A. (British Geological Surv Mackenzie, A.B.; Sott, R.D. (Scottish Universities R Reactor Centre, Glasgow, UK); Ivanovich, M. (UKAEA H Come, B. (CEC); Chapman, N.A. (BGS). acad/priv

Commission of the European Communities, Luxembourg. NATURAL ANALOGUES OF RADIONUCLIDE MIGRATION IN SEDIM

BRITAIN.

P. 104-115. Natural Analogues in Radioactive Waste D Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series.

87/04/00

Confidence in long-term predictions of radionuclide from a repository engineered within a shallow sedime sequence depends on the quality and accuracy of the computer programs that are applied in the safety ass RADIONUCLIDE MIGRATION: safety analysis, natural ana

Brotzen, D.

priv FBAB. (Sweden).

NATURAL CONSTRAINTS ON THE RELEASE OF ACTINIDES FROM NUCLEAR FUEL EMPLACED IN FRACTURED CRYSTALLINE ROCK POLICIES AND PROGRAMS, HIGH-LEVEL WASTE).

Waste Management Conference 1984. Tucson, AZ (USA).

1984. V. 1, p. 435-441.

84/03/00

The contamination of groundwater discharging at the actinides from spent nuclear fuel emplaced in fractu saturated crystalline rock is estimated.
RADIONUCLIDE MIGRATION: groundwater.

Green, D.C.; Guthrie, V.A. (Cambridgeshire College o Technology, UK; Tasmania Univ., Australia) Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. NATURAL MINERAL ANALOGÜES FROM A HYDROTHERMALLY ALTE

P. 436-441. Natural Analogues in Radioactive Waste D

PUBLISH

Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series. DATE

Uranium, thorium and R.E.E. concentrations and distr ABSTRACT a deep drill hole within the Coles Bay granite are b KEYWORDS LOCATION REFERENCE microprobe analytical techniques, amongst others, in to provide a natural analogue of far field radionucl movement.

investigated using fission-track micromapping and el

RADIONUCLIDE MIGRATION: granite, modelling, natural

AUTHOR
TYPE
ORGANIZATION
TITLE

Lisachenko, E.H.; Ponikarova, T.M. govt

PUBLISH DATE ABSTRACT NATURAL RADIONUCLIDE DISTRIBUTION IN PHOSPHATE FERTI SUPERPHOSPHATE PRODUCTION TECHNOLOGY. (IN RUSSIAN). Khim. Prom-st'(1987). No. 5 p. 22-24. 87/00/00

KEYWORDS LOCATION REFERENCE This report examines the data obtained on the natura radionuclide distribution by phosphate fertilizer an superphosphate production process.

RADIONUCLIDE MIGRATION:

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Bidoglio, G.; Offerman, P.; Saltelli, A. assoc

RADIONUCLIDE MIGRATION: modelling.

Commission of the European Communities, Luxembourg. NEPTUNIUM MIGRATION IN OXIDIZING CLAYEY SAND. Appl. Geochem. May-June 1987. V. 2(3) p. 275-284.

KEYWORDS LOCATION

REFERENCE

87/05/00
This paper's purpose is (1) to examine the release f matrix and the migration of 237NP through soil colum develop kinetic models for the process; (3) to deter migration is influenced by chemical speciation: and evaluate the adequacy of a solute transport model to the movement of 237 NP.

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Ahn, J.; Chambre, P.L.; Pigford, T.H.; Lee, W.W.L. acad Lawrence Berkeley Lab. CA (USA). NUCLIDE MIGRATION FROM AREAL SOURCES INTO A FRACTURE April 1987. 9 p. 87/04/00

This document shows analytic solutions to the proble

KEYWORDS LOCATION REFERENCE hydrogeological transport of radionuclides released areal sources into a planar fracture.
RADIONUCLIDE MIGRATION: analytical techniques.

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

acad

NUCLIDE MIGRATION THROUGH A PLANAR FISSURE WITH MATR LBNL Report 19429. April 1985. 69 p. 85/04/00

RADIONUCLIDE MIGRATION:

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

Jacobsen, J.S.; Carnahan, C.L.

Lawrence Berkeley Lab. CA (USA).

NUMERICAL SIMULATION OF ALTERATION OF SODIUM BENTONI
DIFFUSION OF IONIC GROUNDWATER COMPONENTS.

December 1987. 15 p.

87/12/00

Experiments measuring the movement of trace amounts radionuclides through compacted bentonite have typic unaltered bentonite. Models based on experiments suc may not lead to accurate predictions of the migratio altered or partially altered bentonite of radionucli undergo ion exchange.

RADIONUCLIDE MIGRATION: groundwater.

Warnecke, E. (Physikalisch-Technische Bundesanstalt, Braunschwieg, Germany, F.R.); Hild, W. (Gesellschaft Strahlen und Umweltforschung M.B.H., Muenchen, Braun Germany, F.R.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

OUR EXPERIENCE OF THE MIGRATION OF RADIONUCLIDES IN IN GERMANY. (Konrad, Gorleben, Asse)
P. 176-177. Chemistry and Migration Behavior of Acti

P. 176-177. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only

RADIONUCLIDE MIGRATION:

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Kershaw, P.J.; Harvey, B.R.

govt
UK Ministry of Agriculture, Fisheries and Food. (UK)
PHYSICO-CHEMICAL INTERACTIONS OF LONG-LIVED RADIONUC
COASTAL MARINE SEDIMENTS AND SOME COMPARISONS WITH T
ENVIRONMENT.

CEC Report EUR 9214 EN. 1984. p. 131-142.

RADIONUCLIDE MIGRATION: chemistry.

Shaw, H.F.

govt

Lawrence Livermore National Lab. CA (USA). PLAN FOR SPENT FUEL WASTE FORM TESTING FOR NNWSI. November 1987. 36 p.

87/11/00
The purpose of spent fuel waste form testing is to d

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE rate of release of radionuclides from failed disposa holding spent fuel, under conditions appropriate to project tuff repository.
RADIONUCLIDE MIGRATION: tuff.

priv/govt
Ontario Hydro. (Canada).
PREDICTION OF LONG-TERM RELEASES OF 134Cs FROM CEMEN
DEDCONTAMINATION WASTES BY SEMI-INFINITE DIFFUSION M
1984. 1 V.
84/00/00

RADIONUCLIDE MIGRATION:

Pearson, F.J. Jr.; Kelley, V.A.; Pickens, J.F. priv/govt
Sandia National Labs. NM (USA); INTERA Technologies, Austin, TX (USA).
PRELIMINARY DESIGN FOR A SORBING TRACER TEST IN THE DOLOMITE AT THE H-3 HYDROPAD AT THE WASTE ISOLATION (WIPP) SITE.
Feb 1987. 210 p.

87/02/00
The use of sorbing tracers in a field hydrologic tes of estimating the nuclide transport characteristics location in the Culebra dolomite at the Waste Isolat Plant (WIPP) site. The culebra is considered to be t continuous pathway from the site in the event of a b planned nuclear waste repository.
RADIONUCLIDE MIGRATION:

Allen, A.J.; Bourke, M.A. (UKAEA Harwell Lab. Materi and Metallurgy Div.); Bourke, P.J.; Jefferies, N.L.

UKAEA Harwell Lab. Chemistry Div.; United Kingdom Ni PRELIMINARY NEUTRON SCATTERING STUDIES OF POROSITY O December 1987. 25 p. 87/12/00

Attempts to measure diffusively accessible porosity clay using iodide as the diffusing solute in pore wa values of about 10% in hundred hour tests.

RADIONUCLIDE MIGRATION: clay.

Eckert, J.L.; Kalia, H.N.; Coyle, A.J. govt

Battelle Memorial Institute, OH (USA). Office of Nuc Isolation.
QUARTERLY BRINE MIGRATION DATA REPORT, OCTOBER-DECEM

NUCLEAR WASTE REPOSITORY SIMULATION EXPERIMENTS, ASS THE FEDERAL REPUBLIC OF GERMANY.

July 1987. 264 p. 87/07/00

ABSTRACT

KEYWORDS LOCATION REFERENCE Test equipment, the Asse salt mine, and the pretest the salt in the test gallery are described including the first 19 months of operations on brine migration borehole pressure, salt temperatures, and thermomech behaviour of the salt. RADIONUCLIDE MIGRATION: salt.

AUTHOR
TYPE
ORGANIZATION

Vovk, I.F. (International Atomic Energy Agency, Vien assoc Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

TITLE

RADIOLYSIS AS A FACTOR INFLUENCING MIGRATION BEHAVIO IN THE GEOSPHERE.

PUBLISH

| P. 32-33. Chemistry and Migration Behavior of Actini | Fission Products in the Geosphere. Abstracts. 1987.

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

87/00/00 Published in summary form only. RADIONUCLIDE MIGRATION:

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT | Hadermann, J.; Gunten, H.R. Von (Eidgenoessisches In | Reaktorforschung, Wuerrenlingen, Switzerland); Mcomb | McKinley, I. (Nationale Genossenschaft zur Lagerung | Abafaelle, Baden, Switzerland)

govt/acad Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

RADIONUCLIDE MIGRATION IN THE GEOSPHERE- SWISS RESEA ACTIVITIES IN LABORATORY AND FIELD EXPERIMENTS AND I VALIDATION.

P. 186-187. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only RADIONUCLIDE MIGRATION:

Hadermann, J.; Gunten, H.R. Von (Paul Scherrer Inst. Wuerenlingen, Switzerland); McCombie, C.; McKinley, (Nationale Genossenschaft fuer die Lagerung Radioack Abafelle, Baden, Switz.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

RADIONUCLIDE MIGRATION IN THE GEOSPHERE - SWISS RESE ACTIVITIES IN LABORATORY AND FIELD EXPERIMENTS AND I VALIDATION.

Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988.

P.233-255. 88/05/00

In the multibarrier system of a nuclear waste reposi geosphere represents an important component. For per assessments, predictive modelling of radionuclide tr the geosphere is one of the main tasks.

KEYWORDS LOCATION REFERENCE

RADIONUCLIDE MIGRATION:

AUTHOR

TYPE ORGANIZATION Marsily, E. de (Ecole Nationale Superieure des Mines Fontainebleau, France)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

TITLE PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE

(Belgium)

RADIONUCLIDE MIGRATION IN THE GEOSPHERE: AN OVERVIEW P. 158. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only

RADIONUCLIDE MIGRATION:

Gascoyne, M.; Schwarcz, H.P.

govt

Atomic Energy of Canada Limited.
RADIONUCLIDE MIGRATION OVER RECENT GEOLOGIC TIME IN

11 p. (1986). Reprinted from Chemical Geology (Isot Geoscience Section) (1986) 59:75-85.

86/00/00

RADIONUCLIDE MIGRATION: granite.

Sargent, F.P.; Vandergraaf, T.T. (AECL, PInawa, Man. Nuclear Research Establishment)

govt

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

RADIONUCLIDE MIGRATION R AND D IN THE CANADIAN NUCLE MANAGEMENT PROGRAM.

Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988. 21-40.

88/05/00

An introduction to, and a broad general review of, r migration studies in various waste management progra Canada, with major emphasis on the high-level waste program is presented. RADIONUCLIDE MIGRATION:

Chambre, P.L.; Lee, W..L.; Pigford, T.H. (California Berkeley)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

(Belgium).
RADIONUCLIDE TRANSFER AND TRANSPORT IN A GEOLOGIC RE P. 95-96. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

ABSTRACT **KEYWORDS** LOCATION REFERENCE Published in summary form only. RADIONUCLIDE MIGRATION: geologic disposal.

AUTHOR TYPE ORGANIZATION Green, R.T.; Evans, D.D. govt/acad

TITLE

Arizona University, AZ (USA).; Nuclear Regulatory Co Washington DC (USA). RADIONUCLIDE TRANSPORT AS VAPOR THROUGH UNSATURATED

PUBLISH DATE ABSTRACT ROCK. July 1987. 196 p. 87/07/00

KEYWORDS LOCATION REFERENCE Transport mechanisms potentially important at larger include ordinary diffusion, viscous flow, and free c These are studied and reported. RADIONUCLIDE MIGRATION: geology.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Kim, C.L.; Chambre, P.L.; Lee, W.W.L.; Pigford, T.H. California, Berkeley). acad

RADIONUCLIDE TRANSPORT FROM AN ARRAY OF WASTE PACKAG GEOLOGIC REPOSITORY. Trans. Am. Nucl. Soc. 1987. V. 54 P.109-110. 87/00/00

Nuclear waste in geologic repositories will be empla thousands of individual containers. In evaluating ra transport in performance assessments. RADIONUCLIDE MIGRATION: containment.

Eriksen, T.E.

Swedish Nuclear Fuel Supply Co. (Sweden).
RADIONUCLIDE TRANSPORT IN A SINGLE FISSURE. A LABORA

AM, NP, AND TC. 1984. 27 p. 84/00/00

RADIONUCLIDE MIGRATION:

acad

RADIONUCLIDE TRANSPORT MODELLING IN FISSURED ZONES A Nuclear Waste Management Symposium. Stockholm (Swede DATE ABSTRACT KEYWORDS LOCATION REFERENCE 9-11, 1985. p. 655. 85/09/00

RADIONUCLIDE MIGRATION: modelling.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Boust, D.

CEA Centre de la Hague (France). RARE EARTH ELEMENTS DURING DIAGENESIS OF ABYSSAL SED ANALOGIES WITH A TRANSURANIC ELEMENT AMERICIUM. (IN Mar 1987. 296 p.

87/03/00

One of the possibilities for the storage of high-lev radioactive wastes consists of burying them into aby sediments, the sediments being supposed to barrier o radionuclides migration. The objective of the work w estimate the efficiency of sediment barrier with res Americium.

RADIONUCLIDE MIGRATION: disposal and storage alterna

Kurobane, Y.; Fukui, M. (Kyoto Univ., Japan)

acad Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

REACTIVE SOLUTE TRANSPORT IN FRACTURED ROCK: ANALYTI FOR INSTANTANEOUS SOURCE CONDITIONS.

P. 126. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION: geology.

Boles, J.S.; Ritchie, K.

Princeton University. NJ (USA).

REDUCING THE POTENTIAL FOR MIGRATION OF RADIOACTIVE AQUEOUS THERMAL DEGRADATION OF THE CHELATING AGENT D EDTA.

Nucl. Chem. Waste Management. (1987). V. 7(2) p. 89-

Ethylenediaminetetraacetic acid (EDTA), a common com cleaning solutions used for decontamination of radio equipment, has been associated with increased migrat radionuclides into local grondwaters at some radwast sites. Solutions are test and described in this pape

KEYWORDS LOCATION REFERENCE

RADIONUCLIDE MIGRATION:

AUTHOR TYPE ORGANIZATION TITLE

Chambre, P.L.; Kwang, Y.; Lee, W.W.L.; Pigford, T.H.

Lawrence Berkeley Lab. CA (USA) RELEASE RATES FROM WASTE PACKAGES IN A SALT REPOSITO PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

June 1987. 6 p. 87/06/00

In this report we present estimates of radionuclide from waste packages into salt.
RADIONUCLIDE MIGRATION: salt.

Heinrich, W.F.; Andres, T.

govt

Atomic Energy of Canada Limited.

REPONSE FUNCTIONS OF THE CONVECTION-DISPERSION EQUAT DESCRIBING RADIONUCLIDE MIGRATION IN A SEMI-INFINITE 7 p. (1985). Reprinted from Annals of Nuclear Energy 12(12):685-691.

85/00/00

RADIONUCLIDE MIGRATION:

Johnston, P.D. (Her Majesty's Inspectorate of Pollut Department of the Environment, London)

govt

RESEARCH ON RADIONUCLIDE MIGRATION IN THE UK.
Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988.
257-265.; P. 188. Chemistry and Migration Behavior o and Fission Products in the Geosphere. Abstracts. 19

Research relevant to understanding and modelling the radionuclides in the geosphere from radioactive wast

described.

RADIONUCLIDE MIGRATION:

Leneveu, D.M.

govt

Atomic Energy of Canada Limited.

RESPONSE FUNCTION OF THE CONVECTION-DISPERSION EQUAT DESCRIBING RADIONUCLIDE MIGRATION IN A FINITE MEDIUM 6 p. (1987). Reprinted from Annals of Nuclear Energy

14(2):77-82.

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT 87/00/00

RADIONUCLIDE MIGRATION:

Snellman, M. (Valtion Teknillinen Tutkimuskeskus, Fi Reaktorilaboratorio); Hakanen, M.; Suksi, S. (Helsin Finland. Dept. of Radiochemistry); Rasilainen, K.; N (Teollisuuden Voima oy, Finland)

REVIEW OF FINNISH EXPERIENCE IN RADIONUCLIDE MIGRATI Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988. 65-80.

88/05/00

|The Finnish nuclear waste program is outlined and st

performed in Finland related to the migration of rad from a repository for nuclear waste in crystalline b described.

KEYWORDS LOCATION REFERENCE RADIONUCLIDE MIGRATION: geologic disposal.

AUTHOR

Snellman, M.; Rasilainen, K. (Valtion Teknillinen Tu Helsinki, Finland); Hakanen, M.; Suksi, S. (Helsinki Helsinki, Finland)

TYPE ORGANIZATION

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium)

TITLE PUBLISH REVIEW ON FINNISH EXPERIENCE IN RADIONUCLIDE MIGRATI P. 171-172. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987.

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

87/00/00 Published in summary form only RADIONUCLIDE MIGRATION:

AUTHOR TYPE

Aarkrog, A.

ORGANIZATION TITLE

govt RISK ASSESSMENT OF LONG-LIVED RADIONUCLIDES IN THE M

PUBLISH DATE

ENVIRONMENT. CEC Report EUR 9214 EN. 1984. p. 419-441.

84/00/00

ABSTRACT

The global collective effective dose equivalent comm natural radionuclides in the ocean are estimated. Th compared with doses from waterborne discharges from nuclear installations.

KEYWORDS

RADIONUCLIDE MIGRATION: marine disposal, risk analys

LOCATION REFERENCE

AUTHOR

Gauthier, R.; Buckau, G.; Dienstbach, F.; Kim, J.I.; Portillo, C. (Technische Univ., Muenchen, Garching, F.R. Inst. fuer Radiochemie)

TYPE ORGANIZATION

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

(Belgium).
SAMPLING, PRESERVATION AND CHARACTERIZATION OF GROUN
(GORLEBEN AQUIFERS). THE MIGRATION STUDY. (GORLEBEN AQUIFERS).
P. 140. Chemistry and Migration Behavior of Actinide

PUBLISH

TITLE

Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00 Published in Summary form only RADIONUCLIDE MIGRATION: groundwater.

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

Kershaw, P.; Young, A. (Ministry of Agriculture, Fis Food, Lowestoft, UK. Directorate of Fisheries Resear govt

SCAVENGING OF 234TH IN THE EASTERN IRISH SEA. J. Environ. Radioact. 1988. V.6(1) P.1-23.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION 88/00/00

Measurements of the disequilibria of 234th/238U in s in suspended particulate and seabed sediment in the Irish Sea reveal that the residence time of dissolve controlled by the concentration of particles in susp RADIONUCLIDE MIGRATION: marine disposal.

Kepak, F. (Ustav Jaderneho Cskae, Rez, Czechoslovaki

SEPARATION OF RADIONUCLIDES FROM GAS BY SORPTION ON CHARCOAL AND INORGANIC SORBENTS.

Isotopenpraxis. January 1988. V.24(1) P. 1-5. 88/00/00

The review deals with the sorption and ion exchange radionuclides on activated charcoal and on inorganic RADIONUCLIDE MIGRATION:

Liu, S.J.; Wang, S.G.; Ho, L.W. (Inst. of Nuclear En Research, Lungtang, Taiwan)

Technische Univ. Muenchen, Garching, Germany, F.R. I

TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Radiochemie; Commission of the European Communities, (Belgium).

SIMULATION OF RADIONUCLIDE CHEMISTRY AND SORPTION CH IN THE GEOSPHERE BY ARTIFICIAL INTELLEGENT TECHNIQUE P. 100. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only.

RADIONUCLIDE MIGRATION: chemistry, modelling.

|Karlsson, F. (Swedish Nuclear Fuel and Waste Managem |Stockholm) | govt

SOME SWEDISH STUDIES ON THE TRANSPORT OF RADIONUCLID GRANITIC ROCK.

Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988. 219-232.; P. 184-185. Chemistry and Migration Behavi Actinides and Fission Products in the Geosphere. Abs 1987. 196 p. 88/05/00

The present program of research and development in t safety assessment for radioactive waste disposal is based on experiences from the studies kbs-1 of 1977, 1978 and kbs-3 of 1983, the first on the disposal of high-level reprocessing waste and the later two on s RADIONUCLIDE MIGRATION: granite.

acad

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE

SORPTION AND DIFFUSION OF RADIONUCLIDES IN ROCK MATR NATURAL FRACTURE SURFACES STUDIED BY AUTORADIOGRAPHY Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 747. 85/09/00

RADIONUCLIDE MIGRATION: geology.

Kautsky, M. govt

SORPTION OF CESIUM AND STRONTIUM BY ARID REGION DESE University of Nevada Desert Research Institute Water Center Report 45037. May 1984. 103 p. 84/05/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

Sorption and ion exchange properties of strontium an studied since those characteristics slow the migrati nuclear waste to the biosphere and radioactive isoto elements are commonly contained in nuclear waste. RADIONUCLIDE MIGRATION: monitoring.

acad

SORPTION OF SOME FISSION PRODUCTS AND ACTINIDES IN C Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 683. 85/09/00

RADIONUCLIDE MIGRATION: concrete.

Oversby, V.M. (Lawrence Livermore National Lab., CA) Bates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il (USA).

SPENT FUEL AS A WASTE FORM - DATA NEEDS TO ALLOW LON
PERFORMANCE ASSESSMENT UNDER REPOSITORY DISPOSAL CON
P. 87-101. Scientific Basis for Nuclear Waste Manage
Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

This paper will review the factors that affect the r radionuclides from spent fuel under repository condi summarize their present state of knowledge, and sugg where more work is needed in order to support the pe assessment calculations.

RADIONUCLIDE MIGRATION:

Bonano, E.J.; Shipers, L.R. (Sandia National Labs., NM) govt

STOCHASTIC ANALYSIS OF CONTAINMENT TRANSPORT IN PORO

PUBLISH DATE ABSTRACT ANALYSIS OF A TWO-MEMBER RADIONUCLIDE CHAIN. Water Resource. Res. June 1987. V. 23(^0 P. 1063-10787/07/00 In this study the authors extend previous stochastic containment transport in geologic media for a single a chain of two species. The authors particular applithe quantification of uncertainties due to lack of characterization of the spacial variability of hydro

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT parameters on transport of radionuclides from a high repository to the biosphere.
RADIONUCLIDE MIGRATION: containment.

Lee, R.; Ketelle, D.

govt
Oak Ridge National Lab. TN (USA).
STRATABOUND PATHWAYS OF PREFERRED GROUNDWATER FLOW:
FROM THE COPPER RIDGE DOLOMITE IN EAST TENNESSEE.
14 July 1987. 26 p.
87/07/14

The Copper Ridge dolomite of the Upper Cambrian Knox underlies a site at Oak Ridge, TN, under considerati DOE for a below ground waste disposal facility. Copp studied to understand the influence of lithology on groundwater flow.

RADIONUCLIDE MIGRATION: groundwater.

Tyler, P.A.; Walker, M. (Univ. Coll. of Swansea (UK)

Department of the Environment. London (UK).
STUDIES OF THE REPRODUCTIVE BIOLOGY OF DEEP SEA MEGA
BIOCHEMICAL AND CALORIFIC CONTENT OF THE REPRODUCTIV
DEEP SEA HOLOTHURIANS.

1987, 22 p. 87/00/00

The data for protein, lipid, carbohydrate and ash co ovary, testes, gut, and body wall of a variety of de holothurians are presented. The data suggest active pathways in these species which may pass radionuclid developing gametes and after spawning to dispersal i waters.

RADIONUCLIDE MIGRATION: marine disposal, biology.

Rahman, M.M.; Mollah, A.S.; Islam, S.; Raman, H.; Ko (Atomic Energy Research Establishment, Dacca, Bangla

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communites, (Belgium).

STUDIES ON THE ABSORPTION OF SELECTIVE FISSION AND A RADIONUCLIDES BY LOCAL SOIL MATRIX.

P. 121. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p.

87/00/00 Published in summary form only.

KEYWORDS LOCATION REFERENCE RADIONUCLIDE MIGRATION:

AUTHOR TYPE ORGANIZATION TITLE

Bruno, J.; Genthe, I.; Munoz, M. acad

PUBLISH

STUDIES ON THE RADIONUCLIDE COPRECIPITATION - SOLID FORMATION.

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE Scientific Basis for Nuclear Waste Management IX. Ma Research Society Symposia Proceedings. V. 50. 1985. 85/00/00

RADIONUCLIDE MIGRATION: precipitation.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE

Gustafsson, E.; Klockars, C.E.

Svensk Karnbransleforsorjning, AB. (Sweden). STUDY OF THE STRONTIUM AND CESIUM MIGRATION IN FRACT

CRYSTALLINE ROCK. KBS Technical Report 81-07.

84/00/00

RADIONUCLIDE MIGRATION:

govt

US DOE Office of Energy Research, Washington, DC (US SUBSURFACE TRANSPORT PROGRAM: RESEARCH SUMMARY.

Jan. 1987. 51 p. 87/01/00

DOE's research program in subsurface transport, desi provide a base of fundamental scientific information geochemical, hydrological, and biological mechanisms contribute to the transport and long term fate of en contaminants in subsurface ecosystems, is presented. RADIONUCLIDE MIGRATION: hydrology, biology.

Wilson, C.N.

priv

Pacific Northwest Lab. WA; Westinghoude Hanford Co., (USA).

SUMMARY OF RESULTS FROM THE SERIES 2 AND SERIES 3 NN DISSOLUTION TESTS.

November 1987. 15 p.

87/11/00

ABSTRACT

KEYWORDS LOCATION REFERENCE release behavior of spent nuclear fuel in Nevada tes groundwater.

RADIONUCLIDE MIGRATION: groundwater.

AUTHOR

TYPE ORGANIZATION

TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Hanke, C.; Lieser, K.H. (Technische Hochschule Darms Germany, F.R. Inst. fuer Kernchemie)

The NNWSI project is studying dissolution and radion

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium) .

TECHNETIUM IN THE GEOSPHERE.

P. 72. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION: geology.

Baudin, G. (CEA Centre D'Etudues Nucleaires de Fontenay-aux-Roses, France)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium). TECHNICAL ASPECTS OF THE FRENCH PROGRAM DEVOTED TO T RADIONUCLIDE MIGRATION IN THE GEOSPHERE: A REVIEW. P. 173-175. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987.

87/00/00 Published in summary form only

RADIONUCLIDE MIGRATION:

Baudin, G.; Billon, A.; Petit, J.C. (CEA Centre D'Et Nuclearies de Fonténay-aux-Roses. Dept. de Recherche Developpement des Dechets)

TECHNICAL ASPECTS OF THE FRENCH R AND D PROGRAMME DE RADIONUCLIDE MIGRATION IN THE GEOSPHERE: A REVIEW. Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988. 81-113. 88/05/00

Estimating the efficiency of a given geological form retard radionuclide migration raises complex issues CEA tackle by means of a multidisciplinary approach lab studies, field studies, analogue studies, and mo

KEYWORDS LOCATION REFERENCE

RADIONUCLIDE MIGRATION: modelling.

AUTHOR

TYPE ORGANIZATION Greef, E. de (Rijksinstituut Voor Volksgezondheid en Miliehygiene, Biltoven, Netherlands)

Technische Univ. Muenchen, Garching, Germany, F.R.. Radiochemie; Commission of the European Communities,

TTTLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

(Belgium) THE APPLICATION OF GORDON'S RELATION TO THE DIFFUSIO RADIONUCLIDE COMPLEXES IN CONCENTRATED SALT SOLUTION P. 156-157. Chemistry and Migration Behavior of Acti Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only.

RADIONUCLIDE MIGRATION:

AUTHOR TYPE ORGANIZATION TITLE

priv/govt Ontario Hydro. (Canada).
THE BASIS FOR THE DERIVED LIMITS FOR THE EMISSION OF RADIONUCLIDES IN AIRBORNE AND LIQUID EFFLUENTS FROM HYDRO'S NUCLEAR FACILITIES.

Toronto, (Canada). 1986. 146 p.

86/00/00

Gorman, D.J.

DATE ABSTRACT KEYWORDS

PUBLISH

LOCATION REFERENCE RADIONUCLIDE MIGRATION:

AUTHOR

TYPE

ORGANIZATION

TITLE

PUBLISH

DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE

Warwick, P.; Shaw, P. (Loughborogh Univ. of Tecnolog Williams, G.M.; Hooker, P.J. (British Geological Sur Keyworth)

govt/acad Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

(Belgium). THE COMPLEXATION OF RADIONUCLIDES WITH ORGANIC MATER

GROUNDWATER.

P. 87. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION: groundwater.

Mathers, W.G.; Harvey, K.B. aovt

ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Nucl. Chem. Waste Mang. 1987. V. 7(2) p. 163. 87/00/00 The release of a species from a solid that is dissol is of particular interest in scenarios that describe possible release of radionuclides from glasses that immobilized nuclear fuel wastes. In this work, the a solution is compared with a more rigorous solution, use of the linear diffusion equation. RADIONUCLIDE MIGRATION: analytical techniques.

Atomic Energy of Canada Ltd.
THE DISSOLUTION OF A GLASS IN AN INFINITE VOLUME OF

KEYWORDS LOCATION REFERENCE

AUTHOR

Garisto, N.C.; Garisto, F. govt

TYPE ORGANIZATION TITLE

Atomic Energy of Canada Limited.
THE EFFECT OF PRECIPITATION ON THE LONG-TERM RELEASE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION RADIONUCLIDES FROM USED FUEL. 6 p. (1986). Reprinted from Annals of Nuclear Energy 13(11):591-596. 86/00/00

RADIONUCLIDE MIGRATION: precipitation.

Walton, F.B.; Ross, J.P.M.; Juhnke, D.G. govt

Atomic Energy of Canada Limited. THE EFFECTS OF SIMULTANEOUS HEAT AND MASS TRANSPORT RADIONUCLIDE MIGRATION.

10 p. (1985). Reprinted from Materials Research Soci Proceedings (1985) 50:663-672.

85/00/00

RADIONUCLIDE MIGRATION: thermodynamics.

Hunter, R.L.

govt

Sandia National Lab. NM (USA).

THE IMPORTANCE OF SCENARIO DÉVELOPMENT IN MEETING 40

191. 1988. 7 P.

88/00/00

In general, a few hundred scenarios for the release radionuclides from a nuclear waste repository can be but only a few of these can or should be modelled in

RADIONUCLIDE MIGRATION: modelling.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION Loewen, N.R.; Flett, R.J.

govt

Atomic Energy of Canada Limited.
THE POSSIBLE EFFECTS OF MICROORGANISMS UPON THE MOBI
RADIONUCLIDES IN THE GROUNDWATERS OF THE PRECAMBRIAN Technical Report TR-217, 1984. 78 p.

84/00/00

RADIONUCLIDE MIGRATION: groundwater.

Stroes-Gascoyne, S.; Johnson, L.H.; Sellinger, D.M. Energy of Canada Ltd., Whiteshell Nuclear Reasearch Establishment, Pinawa, Man.) govt

THE RELATIONSHIP BETWEEN GAP INVENTORIES OF STABLE X 137/Cs, AND /SU 129/I IN USED CANDU FUEL. Nucl. Technol. June 1987. V.77(3) P.320-330.

87/06/00 Safety assessment of the used fuel disposal concept study of the integrity of used fuel in contact with RADIONUCLIDE MIGRATION: groundwater.

REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

Ramsay, J.D.F. (UKAEA Atomic Energy Research Establi Harwell)

assoc

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

(Belgium).
THE ROLE OF COLLOIDS IN THE MIGRATION OF RADIONUCLID

NUCLEAR WASTE.

P. 144. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p.

87/00/00

Published in summary form only. RADIONUCLIDE MIGRATION: chemistry.

Behrens, H. (Gesellschaft fuer Strahlen und Umweltfo M.B.H. Muenchen, Nueherberg, Germany, F.R.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium)

THE ROLE OF IODINE SPECIATION IN RADIOIODINE SORPTIO

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

P. 111. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. Published in summary form only. RADIONUCLIDE MIGRATION:

Bogorinski, P.; Baltes, B.; Larue, J.; Martens, K.H. (Gesellschaft fuer Reaktorsicherheit M.B.H., Koeln, F.R.)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

THE ROLE OF TRANSPORT CODE VERIFICATION AND VALIDATI LICENSING NUCLEAR WASTE REPOSITORIES IN THE FR OF GE P. 162. Chemistry and Migration Behavior of Actinide Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

Published in summary form only RADIONUCLIDE MIGRATION: modelling, licensing.

Bruno, J.; Sandino, A. (Royal Inst. of Tech., Stockh

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).

THE THERMODYNAMICS AND KINETICS OF CO-PRECIPITATION EFFECT ON RADIONUCLIDE SOLUBILITY.
P. 80-81. Chemistry and Migration Behavior of Actini Fission Products in the Geosphere. Abstracts. 1987. 87/00/00

Published in summary form only.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT RADIONUCLIDE MIGRATION: thermodynamics.

Polzer, W.L.; Fuentes, H.R.

govt

Los Alamos National Lab. NM (USA).
THE USE OF A HETEROGENEITY BASED ISOTHERM TO INTERPR TRANSPORT OF REACTIVE RADIONUCLIDES IN VOLCANIC TUFF 1987. 19 p.

87/00/00

The sorption of cesium and strontium has been modele heterogeneity based isotherm equation for various tu including those within a sequence of geologic strati units. The theory of the isotherm foresees the relat retardation and the chemical dispersion of the studi

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE

radionuclides during the transport. RADIONUCLIDE MIGRATION: tuff.

Pigford, T.H. (Univ. Of California, Berkeley) acad

Pacific Northwest Lab. WA (USA).

THRESHOLD TEMPERATURE GRADIENT EFFECT ON MIGRATION O INCLUSIONS IN SALT.

p. 25. Proceedings of Salt Repository Project's Work Migration. March 1987.

87/03/00

Theories on the migration of brine inclusions in sal interpreted as simple physical processes, and theori Russian and US workers were shown to yield the same migration theory was used to predict threshold tempe gradients below which migration of brine inclusions occur.

RADIONUCLIDE MIGRATION:

Kang, C.H.; Chambre, P.L.; Lee, W.W.L.; Pigford, T.H govt

Lawrence Berkeley Lab. CA (USA).
TIME DEPENDENT NUCLIDE TRANSPORT THROUGH BACKFILL IN FRACTURE

June 1987. 7 p.

87/06/00

This paper presents a transient analysis of radionuc transport through backfill into a fissure.

RADIONUCLIDE MIGRATION:

Ittner, T.; Torstenfelt, B. (Chambers Univ., Sweden)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

(Belgium). TRACE ELEMENT MIGRATION INTO WATER EXPOSED GRANITIC P. 25. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

ABSTRACT KEYWORDS LOCATION REFERENCE Published in summary form only. RADIONUCLIDE MIGRATION: geology.

AUTHOR

Hadermann, J.; Hoehn, E. (Eidgenoessisches Inst. fue Reaktorforschung, Switzerland); Frick, U. (Nationale

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Genossenschaft fuer die Lagerung Radioaktiver Abfael Switzerland).

KEYWORDS LOCATION REFERENCE TRACER MIGRATION EXPERIMENT AT SWISS ROCK LABORATORY Nucl. Eur. March 1987. V. 7(3-4) P.43. 87/03/00

Switzerland's national cooperative for the storage o waste is performing an extensive research program on topics of interest for safety assessments at the und

Juznic, K. (Ljubljana Univ. Yugoslavia. J. Stepohan Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities,

Grimsel Rock laboratory in central Switzerland. RADIONUCLIDE MIGRATION: safety analysis.

TYPE ORGANIZATION

> (Belgium). TRANSFER OF RADIOCESIUM AND THE EQUILIBRIA IN A NATU ZEOLITE-WATER SYSTEM.

TITLE **PUBLISH**

AUTHOR

P. 93. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p. 87/00/00

DATE **ABSTRACT** KEYWORDS LOCATION REFERENCE

Published in summary form only. RADIONUCLIDE MIGRATION:

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Chambre, P.L.; Lee, W.W.L.; Kim, C.L.; Pigford, T.H. Berkeley Lab., CA).
Bates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il (USA).

TRANSIENT AND STEADY-STATE RADIONUCLIDE TRANSPORT TH PENETRATIONS IN NUCLEAR WASTE CONTAINERS.

P. 131-140. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

In this paper they analyze the transport of radionuc penetrations in nuclear waste containers. RADIONUCLIDE MIGRATION: containment.

acad

TRANSIENT DIFFUSIONAL RELEASE FROM WASTE PACKAGES IN

Nuclear Waste Management Symposium. Stockholm (Swede

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

9-11, 1985. p. 779. 85/09/00

RADIONUCLIDE MIGRATION: containment, basalt.

Glasbergen, P.; De Greef, E.; Hassanizideh, S.M. (RI Bilthoven, Netherlands) (and others)

Commission of the European Communities, Luxembourg. TRANSPORT BY GROUNDWATER OF RADIONUCLIDES RELEASED A OF A REPOSITORY IN A SALT DOME.

1987. 66 p. 87/00/00

The transport of radionuclides in geological media b high salinity is studied with the especially-develop computer code (method for the transport of pollutant RADIONUCLIDE MIGRATION: groundwater.

acad

TRANSPORT OF ANTHROPOGENIC RADIONUCLIDES IN THE UPPE OF THE SAVANNAH RIVER. Clemson University Water Resources Research Inst. Re June 86. 78 p. 86/06/00

RADIONUCLIDE MIGRATION:

Lung, H.C.; Chambre, P.L.; Pigford, T.H.; Lee, W.W.L

Lawrence Berkeley Lab. CA (USA). TRANSPORT OF RADIOACTIVE DECAY CHAINS IN FINITE AND POROUS MEDIA.

September 1987. 101 p.

87/09/00

This report presents analytical solutions, numerical implementation and numerical illustrations for the t radioactive decay chains of arbitrary length in poro limited and unlimited extent. RADIONUCLIDE MIGRATION:

Hassanizadeh, S.M. (National Institute for Public He Environmental Hygiene (RIVM), Leidschendam, Netherla

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

Argonne National Lab. Il (USA).
TRANSPORT OF RADIONUCLIDES BY CONCENTRATED BRINE IN
MEDIUM WITH MICROPORE-MACROPORE STRUCTURE.

P. 757-767. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

This work concerns itself with the study of effects aggregation and high salt concentrations on the tran radionuclides by concentrated brine flowing through aggregated porous medium.

RADIONUCLIDE MIGRATION: salt.

Ahn, J.; Chambre, P.L.; Pigford, T.H.; Lee, W.L. (Un California, Berkeley).

TRANSPORT OF RADIONUCLIDES RELEASED FROM A MULTIPLE-INTO A PLANAR FRACTURE WITH TRANSVERSE HYDRODYNAMIC Trans. Am. Nucl. Soc. 1987. V. 54 P.107-108. 87/00/00

Fractures are considered a main path for hydrologica of radionuclides released in a geologic repository. actual fractures form a complex network, single-frac transport models are useful in predicting travel tim concentrations of released nuclides.

RADIONUCLIDE MIGRATION: fractures, hydrology, modell

Van Luik, A.E.; Apted, M.J.

Pacific Northwest Lab. WA (USA).
US DEPARTMENT OF ENERGY APPROACHES TO THE ASSESSMENT
RADIONUCLIDE MIGRATION FOR THE GEOLOGIC REPOSITORY P
Radioact. Waste Manage. Nucl. Fuel Cycle. May 1988.
267-283..; P. 189-190. Chemistry and Migration Behav
Actinides and Fission Products in the Geosphere. Abs
1987. 196 p. (Summary form).
87/09/00

Potential radionuclide migration in geologic reposit being addressed. Geohydrologic settings being invest include unsaturated tuff, saturated basalt, and bedd RADIONUCLIDE MIGRATION: tuff, basalt, salt.

Hunter, T.O.; Muller, A.B., (ed.). assoc OECD Nuclear Energy Agency.

TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

WORKSHOP ON THE SOURCE TERM FOR RADIONUCLIDE MIGRATI HIGH-LEVEL WASTE OR SPENT NUCLEAR FUEL UNDER REALIST REPOSITORY CONDITIONS.

1985. 203 p. 85/00/00

RADIONUCLIDE MIGRATION:

AAAAAAAAA AAAAAAAAAA AAAAAAAAA

					PPPP P P PPPPP P	III I I I I I	L L L L L	000 0 0 0 0 0 0 0 0	N N N N N N N N N N N
PPPP P P	III I	L L L	000	 N N N	L L L	PPPP P P	cccc	FFFFF F F	SSSS S S

PPPP P P P	I I I I	L L L LLLLL	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N N N N NN N N	L L L LLLLL	PPPP P P	c c c	FFFF F F F	SSS S SSSS
					••	PPPP P P P P PPPP P	RRRR R R RRRR R R R R R R	TTTTT T T T T T T	;;

File NCRFEA\$DKA300:[PCFS SPOOL.LASER 2]PILONLPCFS213359.PRT;1 (894,415,0), last sequential file owned by UIC [PCFS,PCFS\$ACCOUNT]. The records are variable leng longest record is 128 bytes.

Job PILONLPCFS213359 (925) queued to LASER_2 on 18-OCT-1990 21:34 by user PILONL started on printer LTA2: on 18-OCT-1990 21:36 from queue LASER_2.

AAAAAAAA AAAAAAAAA AAAAAAAAA AUTHOR TYPE ORGANIZATION

TTTLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT govt Battelle Memorial Inst. Columbus, OH. Office of Nucl Isolation. EXPECTED NEAR-FIELD THERMAL PERFORMANCE FOR NUCLEAR REPOSITORIES AT POTENTIAL SALT SITES. Battelle Memorial Inst. Report ONWI-652. August 1987 87/08/00

THERMODYNAMICS: salt.

McAssey, E.V.; Schrock, V.E.

HEAT TRANSFER PROBLEMS IN NUCLEAR WASTE MANAGEMENT. New York, NY. American Society of Mechanical Enginee p. HTD-Vol.67 87/00/00

This book contains five selections. They include: he aspects of nuclear waste disposal; natural convectio porous layer locally heated from below; thermal-hydr analysis of spent fuel storage systems; an experimen analytical evaluation of a type B radioactive transp container; and theoretical evaluation of consolidate temperature in spent fuel storage canister. THERMODYNAMICS: containment.

govt

POST-TEST THERMOMECHANICAL CALCULATIONS AND PRELIMIN ANALYSIS FOR THE SPENT FUEL TEST-CLIMAX. LLNL Report UCRL-53688. September 1985. 59 p. 85/09/00

THERMODYNAMICS:

Van Sambeek, L.L.

priv RE/SPEC, Inc. Rapid City, SD (USA). THERMAL AND THERMOMECHANICAL ANALYSES OF WIPP SHAFT

October 1987. 91 p.

87/10/00

Thermal and thermomechanical analyses provided infor behavior and stability of concrete seals emplaced in

shaft. Thermal analyses determined the temperature r concrete and surrounding rock as a result of the exo hydration of the cement in the concretes. THERMODYNAMICS:

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE Beavan, G.

govt
Department of the Environment. (UK).

'WISP' A SIMPLE RADIOACTIVE WASTE MANAGEMENT COMPUTE December 1987. 26 p.

87/12/00

The report describes the radioactive waste managemen WISP.

ANALYTICAL TECHNIQUES:

Richter, S.A.; Travis, C.C. acad

A REMEDIAL ALTERNATIVE PRIORIZATION METHOD.
American Institute of Chemical Engineers. 1987. 15 p
87/00/00
This study develops and tests a technique for evalua-

This study develops and tests a technique for evalua prioritizing alternative remedial actions for hazard sites. The method is based on criteria involving ribenefit and cost.

ANALYTICAL TECHNIQUE: risk analysis, economics.

Hale, H.J. (US Dept. Of Energy, Office of Civilian R Waste Management, Washington, DC)
Post, R.G. (ed.).
govt

APPLICATIONS OF SYSTEM ENGINEERING TO CIVILIAN RADIO MANAGEMENT PROGRAM.
P.3-8. Waste Management '87: Waste Isolation in the Programs, and Public Education. Tucson, AZ. Universi

Arizona Nuclear Engineering Dept. 1987 87/00/00

This paper discusses the unique features of the wast problem and the application of systems engineering t requirements of these features.

ANALYTICAL TECHNIQUES: engineering, waste management

(Pacific Northwest Lab., WA)
Post, R.G. (ed.)

priv

AREST: A PROBABILISTIC SOURCE-TERM CODE FOR WASTE PA PERFORMANCE ANALYSIS.

Liebetrau, A.M.; Apted, M.J.; Engel, D.W.; Altenhofe Reid, C.R.; Strachan, D.M.; Erikson, R.L.; Alexander

PUBLISH

P. 535-544. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

DATE

KEYWORDS LOCATION REFERENCE The engineered barrier system is the first of severa and natural barriers to the release and migration of wastes from a geologic repository to the accessible ANALYTICAL TECHNIQUES: containment, geologic disposa

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Pin, F.G. (Oak Ridge National Lab., Oak Ridge, TN) Chu, S.L. (ed.) govt

AUTOMATED SENSITIVITY ANALYSIS: NEW TOOL FOR MODELLI DYNAMIC SYSTEMS.

P. 305-312. Energy Solutions Today for the Nineties. NY. American Society of Civil Engineers. 1987.

87/00/00 Sensitivity analysis is an established methodology u researchers in almost every field to gain essential design and modelling studies and in performance asse complex systems.

ANALYTICAL TECHNIQUES: modelling, decision making.

Brauer, F.P.; Conners, D.A.; Deichman, J.L.; Johnson Routson, R.C.

priv Westinghouse Hanford Co., Richland, WA (USA). DATA COMPILATION: IODINE-129 IN HANFORD GROUNDWATER. August 1987. 375 p.

87/08/00 This report summarizes all data and information abou Hanford site groundwater that could be gathered from

diverse sources. ANALYTICAL TECHNIQUES: groundwater.

Bonano, E.J.; Davis, P.A.

govt

Sandia National Labs. NM (USA).
DEMONSTRATION OF A PERFORMANCE ASSESSMENT METHODOLOG WASTE ISOLATION IN BASALT FORMATIONS.

1988. 19 p. 88/00/00

This paper summarizes the results of the demonstrati performance assessment methodology developed by Sand Labs, for the US Nuclear Regulatory Commission for u

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

analysis of high-level radioactive waste disposal in basalts. ANALYTICAL TECHNIQUES: basalt, geology, modelling.

Worley, B.A. govt Oak Ridge National Lab. TN (USA) DETERMINISTIC UNCERTAINTY ANALYSIS. December 1987. 53 p.

This paper presents a deterministic uncertainty anal

for calculating uncertainties that has the potential significantly reduce the number of computer runs com conventional statistical analysis. ANALYTICAL TECHNIQUES: risk analysis.

AUTHOR TYPE ORGANIZATION

Croff, A.G.; Forsberg, C.W.

TITLE PUBLISH Oak Ridge National Lab. TN (USA).
DEVELOPMENT AND APPLICATION OF A CONCEPTUAL APPROACH HIGH-LEVEL WASTE.

DATE ABSTRACT KEYWORDS 1986. 20 p. 86/00/00

AUTHOR TYPE ORGANIZATION priv/govt

ANALYTICAL TECHNIQUES: waste characterization.

TITLE

Department of the Environment, London; Taylor Woodro Construction Ltd., Southall, (UK).
DEVELOPMENT OF THE DESIGN AND RELIABILITY ANALYSIS O

PUBLISH DATE

LOCATION REFERENCE

REPOSITORY SYSTEM. FINAL REPORT. June 1987. 174 p.

87/06/00 ABSTRACT

This study examines the seabed repository scheme pro for the long-term disposal of heat generating radioa and develops it to a standard sufficient to compare reliability with the drilled emplacement and penetra ANALYTICAL TECHNIQUES: marine disposal.

KEYWORDS LOCATION REFERENCE

AUTHOR

Lotz, T.L.; Shay, M.R. priv

TYPE ORGANIZATION TITLE

Pacific Northwest Lab. WA (USA). FACSIM/MRS-1: CASK RECIEVING AND CONSOLIDATION PERFO

PUBLISH DATE ABSTRACT ASSESSMENT. June 1987. 550 p.

87/06/00 A simulation analysis was completed to assess the pe the shipping cask, recieving and spent-fuel handling consolidation and canistering operations of the moni retrievable storage facility.

KEYWORDS

ANALYTICAL TECHNIQUES: waste handling and emplacemen containment, cask.

LOCATION REFERENCE

Teper, B.

AUTHOR TYPE ORGANIZATION TITLE

FEASIBILITY ASSESSMENT OF THE PARTICULATE-PACKED, TH CONTAINER.

PUBLISH

Nineteenth Information Meeting of the Nuclear Fuel W Management Program. Atomic Energy of Canada Ltd. Tec Record TR-350. V. I. Sept. 1985. p. 21-32. 85/09/00

DATE ABSTRACT

ANALYTICAL TECHNIQUES: containment.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Haase, C.S.

govt

Oak Ridge National Lab. TN (USA).

GEOPHYSICAL DATA FROM BOREHOLES DM1, DM2, DM3, AND D HYDRAULIC FRACTURING FACILITY, OAK RIDGE NATIONAL LA

OAK RIDGE, TENNESSEE. March 1987. 107 p.

87/03/00

A comprehensive suite of geophysical logs was obtain deep monitoring boreholes at the new hydrofracture f logging was an attempt to obtain stratigraphic, stru hydrologic information on the subsurface environment the hydrofracture facility.

ANALYTICAL TECHNIQUES: geology.

Harlan, C.P.; Wikinson, G.F.

Sandia National Lab. NM (USA).

HIGH-LEVEL WASTE MANAGEMENT CODE MAINTENANCE AND OUA

ASSURANCE.

January 1988. 51 p. 88/01/00

The US Nuclear Regulatory Commission has the respons licensing sites for future disposal of commercial hi

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT radioactive waste. Sandia National Labs is assisting this effort by developing and demonstrating performa assessment methodologies for evaluating high-level r waste repositories in deep geologic formations. ANALYTICAL TECHNIQUES: disposal and storage alternat

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Rajen, G.; Kulacki, F.A. acad

Colorado State University. CO (USA).

HYDROTHERMAL IMPACT OF A HIGH-LEVEL NUCLEAR WASTE RE Rock Mechanics: Proceedings of the 28th US Symposium 1987. 755-762.

87/00/00

A numerical and experimetnal study of thermal convec porous layer partially heated from below is presente ANALYTICAL TECHNIQUES: geology.

Stephensen, D.E.; King, C.M.

govt

Savannah River Lab. SC (USA).
METHODOLOGY FOR PREDICTIVE MODELLING OF ENVIRONMENTA
AND HEALTH EFFECTS FOR WASTE SITES AT THE SAVANNAH R ENVIRONMENTAL INFORMATION DOCUMENT.

March 1987. 71 p.

87/03/00

This document provides information on the methods us

chemical transport and the associated health risk fo postulated closure activities at waste sites. ANALYTICAL TECHNIQUES: health, radionuclide migratic

AUTHOR TYPE ORGANIZATION TITLE

Arulmoli, K.; St John, C.M. govt

Sandia National Lab. NM (USA).
NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT: HORIZONTAL WASTE EMPLACEMENT BOREHOLES OF A NUCLEAR REPOSITORY IN TUFF.

March 1987. 98 p.

87/03/00

KEYWORDS LOCATION

REFERENCE

PUBLISH

ABSTRACT

DATE

In support of the design of a nuclear waste reposito two dimensional thermal and thermal-mechanical analy horizontal emplacement boreholes were performed usin finite-element and boundary-element codes. ANALYTICAL TECHNIQUES: glass, geologic disposal.

AUTHOR TYPE ORGANIZATION TITLE

Blanford, M.L.; Osnes, J.D.

PUBLISH

govt Sandia National Lab. NM (USA).

NUMERICAL ANALYSES OF THE G-TUNNEL SMALL-DIAMETER HE EXPERIMENTS.

May 1987. 149 p. 87/05/00

Post, R.G. (ed.)

NM)

govt

DATE ABSTRACT

The experiments, conducted by Sandia National Labs., in two phases. Heaters were placed in vertical boreh data gathered on the heat transfer. This report summ finite element heat transfer analyses of the two pha experiments.

KEYWORDS LOCATION REFERENCE

ANALYTICAL TECHNIQUES: monitoring.

AUTHOR

TYPE ORGANIZATION

PUBLISH

TITLE

DATE

ABSTRACT

KEYWORDS LOCATION REFERENCE PERFORMANCE ASSESSMENT FOR A NUCLEAR WASTE REPOSITOR EXPERIENCE.

Chaturvedi, L.; Chapman, J.B.; Neill, R.H.; Channell (Environmental Evaluation Group, State of New Mexico

P. 141-146. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

Performance assessment to show compliance with the s a nuclear waste repository requires thorough site characterization and understanding of potential path breach of the repository.

ANALYTICAL TECHNIQUES: siting.

AUTHOR

TYPE

Aparo, M.; Dionisi, M.; Mattia, B; Zeppa, P.; Angeli Baldini, E.; Sardo, I.; Frazzoli, F.V. govt

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

(Italy) PERFORMANCE STUDY OF DEXA DENSITOMETER FOR THE ASSAY URANIUM-PLUTONIUM MIXED SOLUTIONS.

ENEA-RT-COMB--87-4.

87/04/00

The present work has been carried out in view of a p installation of a densitometer, at Eurex reprocessin plant, aimed to in-line control of the product strea partial partition cycle, during the reprocessing cam Trino Cruciforme spent fuels. Experimental results o measurement campaign, carried out with dexa densitom plutonium plant are reported.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

ANALYTICAL TECHNIQUES: chemistry.

Saltelli, A.

assoc

Commission of the European Communities, Luxembourg. PERFORMANCES OF NON-PARAMETRIC STATISTICS IN SENSÍTI AND PARAMETER RANKING.

1987. 60 p. 87/00/00

Twelve parametric and non-parametric sensitivity ana techniques are compared in the case of non-linear mo responses. The test models used are taken from the 1 risk analysis for the disposal of high level radioac in a geological disposal.

ANALYTICAL TECHNIQUES: risk analysis, geologic dispo

Preece, D.S.

govt

Sandia National Labs. NM (USA).

PRETEST 3-D FINITE ELEMENT MODELLING OF THE WEDGE PI OF THE WIPP GEOMECHANICAL EVALUATION (ROOM G) IN SIT EXPERIMENT.

June 1987. 57 p.

87/06/00

Pretest 3-D finite element calculations have been pe the wedge pillar portion of the WIPP geomechanical e experiment. The purpose of the experiment is to prov the creep behaviour of the wedge and progressive fai tip.

ANALYTICAL TECHNIQUES: geology.

govt Battelle Memorial Institute, OH (USA). Office of Nuc Isolation.

PROBABLE MAXIMUM FLOOD ANALYSIS, RICHTON DOME, MISSI

1: TECHNICAL REPORT. March 1987. 30 p. 87/03/00

This report presents results of a preliminary analys extent of inundation that would result from a probab flood (PMF) event in the overdome area of Richton Do ANALYTICAL TECHNIQUES: AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION Unger, M.; Mainka, E.; Koenig, W. govt

Kernforschungszentrum Karlsruhe G.M.B.H. (FRG). QUANTITATIVE DETERMINATION OF EDTA AND ITS BEHAVFIOU RADIOACTIVE WASTE SOLUTIONS USING HPLC.

Fresenius' Z. Anal. Chem. Nov. 1987. V. 329(1) p. 50 87/11/00

A new analytical method for the quantitative determi EDTA in radioactive waste solutions is described. ANALYTICAL TECHNIQUES: waste characterization.

Farmer, I.W.; Daemen, J.J.; Desai, C.S.; Glass, C.E. S.P.; Donovan, K.S.; Lehman, G.A.; Pearce, R.S.; Kim govt

Rockwell Hanford Operations. WA (USA). RATIONALE FOR DEVELOPMENT OF CONSTITUTIVE MODELS OF MASS FOR DESIGN OF A NUCLEAR WASTE REPOSITORY AT THE

SITE.

Rock Mechanics: Proceedings of the 28th US Symposium 1987. p. 715-724.

87/00/00

Development of constitutive laws for the disposal of waste at the Hanford site, is necessary for modellin used to evaluate the repository design and to evalua ability of the repository to contain radioactive was several thousand years. This paper evaluates four an techniques that have been used in previous analyses repository in basalt and presents a strategy for fur development of constitutive models.

ANALYTICAL TECHNIOUES:

Corbett, J.O. govt/assoc

Central Electricity Generating Board, Berkeley (UK). RISK ASSESSMENT METHODS FOR RADIOACTIVE WASTE DISPOS ASSOCIATED WITH THE ANNUAL RISK APPROACH AND HOW TO March 1987. 25 p.

87/03/00
It is shown that the method of assessing radioactive disposal options in terms of the annual risk to the group can lead to anomalous results, in which the ri artificially diluted by averaging it over a number o generations, most of whom are actually unaffected. A alternative approach is proposed, based on the stati expectation value of the lifetime risk to the critic which is not subject to this problem. ANALYTICAL TECHNIQUES: risk analysis.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Knighton, R.E.; Wagenet, R.J.;

govt/acad

Los Alamos National Lab. NM (USA).

SIMULATION OF ION MOVEMENT IN SOIL USING A CONTINUOU PROCESS.

Modelling Study of Solute Transport in the Unsaturat Workshop Proceedings. April 1987. p. 37-81.

87/04/00

Simulation of solute transport using a continuous-ti process is a new approach for modelling chemical mov soils. The authors describe the model and apply it t results of tracer experiments on the transport of io bromine, strontium and lithium in Bandalier Tuff. ANALYTICAL TECHNIQUES: radionuclide migration.

Prindle, R.W.

govt

Sandia National Lab. NM (USA).

SPECIFICATION OF A TEST PROBLEM FOR HYDROCOIN (HYDRO
INTERCOMPARISON) LEVEL 3 CASE 2: SENSITIVITY ANALYSI DISPOSAL IN PARTIALLY SATURATE, FRACTURED TUFF.

Aug. 1987. 37 p.

87/08/00

The International hydrologic code intercomparison pr (Hydrocoin) was formed to evaluate hydrogeologic mod computer codes and their use in performance assessme high-level radioactive waste repositories.

ANÁLYTICAL TECHNIQUES:

Apted, M.J.; Liebetrau, A.M.; Engel, D.W. (Pacific N Lab., Richland, WA) Post, R.G. (ed.) priv

SPENT FUEL AS A WASTE FORM: ANALYSIS WITH AREST PERF ASSESSMENT CODE.

P. 545-554. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

The release of radionuclides from spent fuel has bee for three different repository sites and waste packa ANALYTICAL TECHNIQUES: containment, radionuclide mig

AUTHOR TYPE ORGANIZATION TITLE

Plodinec, M.J.; Jantzen, C.M.; Wicks, G. acad

STABILITY OF RADIOACTIVE WASTE GLASSES ASSESSED FROM THERMODYNAMICS.

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE Materials Research Society Symposia Proceedings 26: 84/00/00

ANALYTICAL TECHNIQUES: glass, thermodynamics.

AUTHOR TYPE ORGANIZATION TITLE

Pulsipher, B.A.; Kuhn, W.L.

PUBLISH DATE ABSTRACT Pacific Northwest Lab. WA (USA). STATISTICAL PROCESS CONTROL APPLIED TO THE LIQUID-FE MELTER PROCESS.

September 1987. 41 p.

87/09/00
In this report, an application of control charts to feed composition of a liquid-fed ceramic melter is d by using results from a simulation of the LFCM syste ANALYTICAL TECHNIQUES: ceramics.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

Tjus, K. govt

Institute for Surface Chemistry. (Sweden). STUDY OF GROUNDWATER COLLOIDS AND THEIR ABILITY TO T RADIONUCLIDES.

March 1987. 30 p.

87/03/00

Natural occurring colloids in groundwater can adsorb transport released radionuclides. In this work, grou colloids have been investigated with Zeta potential and dynamic light scattering.

ANALYTICAL TECHNIQUES: groundwater, radionuclide mig

Stormont, J.C.; Peterson, E.W.; Lagus, P.L.

govt Sandia National Lab. NM (USA).

SUMMARY OF AND OBSERVATIONS ABOUT WIPP FACILITY HORI MEASUREMENTS THROUGH 1986.

May 1987. 75 p.

87/05/00

Numerous gas flow measurements have been made at the facility horizon from 1984 through 1986. Results of, recommedations and conclusions, are presented in thi ANALYTICAL TECHNIQUES:

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Gascoyne, M.; Vandergraaf, T.T.

govt

Atomic Energy of Canada Limited. SUMMARY OF DISCUSSION AT THE CONFERENCE ON ISOTOPE G OF GROUNDWATER AND FRACTURE MATERIAL IN PLUTONIC ROC

MARIE, QUEBEC, CANADA, 1-3 OCTOBER, 1986. Applied Geochemistry. Jan-Feb. 1987. V. 2(1) p. 137-

87/01/00 In the discussions on groundwater dating, isotopes g

and dissolved gases, there was a consensus that the of a groundwater cannot be determined. No single is

dating method stands out. ANALYTICAL TECHNIQUES: groundwater.

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Crick, M.J.; Hill, M.D. (National Radiological Prote Chilton (UK)) (and others).

govt

Nuclear Energy Agency. 75 - Paris (France).
THE ROLE OF SENSITIVITY ANALYSIS IN ASSESSING UNCERT P. 116-129. Uncertainty Analysis for Performance As Radioactive Waste Disposal Systems.

Proceedings of an NEA Workshop. Paris (France). Organisation for Economic Co-operation and Developme 258 p.

87/00/00

This paper reviews approaches to sensitivity analysi context of assessing uncertainty, and outlines the test available to identify sensitive parameters, tog their advantages and disadvantages.

ANALYTICAL TECHNIQUES:

Plodinec, M.J.; Jantzen, C.M.; Wicks, G. acad

THERMODYNAMIC APPROACH TO PREDICTION OF THE STABILIT RADWASTE GLASSES.

Advances in Ceramics 8: 491-495.

84/00/00

ANALYTICAL TECHNIQUES: thermodynamics, glass.

Duffy, C.J.; Al-Hassan, S. govt/acad

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Los Alamos National Lab. NM (USA). TIME AND FREQUENCY DOMAIN ANALYSIS OF TRACER MIGRATI TUFF

Modelling Study of Solute Transport in the Unsaturat Workshop Proceedings. April 1987. p. 82-116.

The time moment method as presented by Valocchi (85) Himmelbau (70) is compared with the frequency and do for transport parameter estimation for the Lanl Cais experiments. ANALYTICAL TECHNIQUES: tuff, radionuclide migration.

Gee, J.H.

govt Ontario Hydro, Design and Development Division. Preliminary Environmental and Safety Assessment of t Nuclear Fuel Waste Management Concept: Pre-Closure P 2-Support Documents.

Toronto. 1983, 700p. 83/00/00

A collection of social impact, occupational safety a

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION Mehta, K.

acad

Atomic Energy of Canada Limited.

A PROPOSED RISK ACCEPTANCE CRITERION FOR NUCLEAR FUE DISPOSAL.

Technical Report, 8378.

85/00/00

RISK ANALYSIS: disposal and storage alternatives.

Gralewski, Z.A.; Kane, P.; Nicholls, D.B. (Electrowa Engineering Services Ltd., Horsham, UK) priv

Department of the Environment. London (UK) DEVELOPMENT OF A METHODOLOGY FOR POST-CLOSURE RADIOL ANALYSIS OF UNDERGROUND WASTE REPOSITORIES. ILLUSTRA ASSESSMENT OF THE HARWELL SITE. V.2. APPENDICES.

June 1987. 199 p. 87/06/00

A probabalistic risk analysis is demonstrated for a groundwater mediated release scenarios at the Harwel hypothetical repository at a depth of about 150 m. T second stage of development of an overall risk asses methodology

RISK ANALÝŠIS: groundwater.

Gralewski, Z.A.; Kane, P.; Nicholls, D.B. (Electrowa Engineering Services Ltd., Horsham, UK)

priv

Department of the Environment. London (UK)

DEVELOPMENT OF A METHODOLOGY FOR POST-CLOSURE RADIOL ANALYSIS OF UNDERGROUND WASTE REPOSITORIES. ILLUSTRA ASSESSMENT OF THE HARWELL SITE. V.1.

June 1987. 353 p.

87/06/00

A probabalistic risk analysis is demonstrated for a groundwater mediated release scenarios at the Harwel hypothetical repository at a depth of about 150 m. T second stage of development of an overall risk asses methodology

RISK ANALYSIS: groundwater.

Gralewski, Z.A.; Kane, P.; Nicholls, D.B. (Electrowa Engineering Services Ltd., Horsham, UK)

Department of the Environment. London (UK).

TITLE

DEVELOPMENT OF A METHODOLOGY FOR POST-CLOSURE RADIOL ANALYSIS OF UNDERGROUND WASTE REPOSITORIES. ILLUSTRA ASSESSMENT OF THE HARWELL SITE. EXECUTIVE SUMMARY. June 1987. 30 p.

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE 87/06/00

A probabalistic risk analysis is demonstrated for a groundwater mediated release scenarios at the Harwel hypothetical repository at a depth of about 150 m. T second stage of development of an overall risk asses methodology.

RISK ANALYSIS: groundwater.

Davis, J.D.; Runchal, A.K.

priv/govt

Rockwell Hanford Operations. WA (USA); Analytic & Co Research Inc. CA (USA).

DISRUPTION SCENARIO ANALYSIS FOR A NUCLEAR WASTE REPHANFORD SITE BASALTS, WASHINGTON STATE.

Waste Management Conference 1984. Tucson, AZ (USA). 1984. V. 1, p. 419-426.

84/03/00

The Delphi method of expert opinion consensus-formin to disruption scenario analyses of a candidate high-radioactive waste repository at the Hanford Site. Ex scientific and engineering opinion was elicited for and ranking of site-specific scenarios within the fr occurrence probability categories established by NRC RISK ANALYSIS: other alternatives.

King, C.M.; Marter, W.L.; Looney, B.B.; Pickett, J.B
govt

Savannah River Lab. SC (USA).

METHODOLOGY AND PARAMETERS FOR ASSESSING HUMAN HEALT WASTE SITES AT THE SAVANNAH RIVER PLANT: ENVIRONMENT INFORMATION DOCUMENT.

March 1987. 390 p.

87/03/00

This report provides a summary of the components of assessment and presents the technical basis for appl the risk evaluation process to the principal polluta RISK ANALYSIS:

Green, Patrick

assoc

Friends of the Earth. (U.K.)

OCCUPATIONAL EXPOSURE RISKS/ICRP LIMITS UNDER FIRE.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

REFERENCE

AUTHOR

TYPE ORGANIZATION FOE Trust, E-7, London, 1987, 20pp.

87/00/00

Comparison of risks in other industries with those f

occupational radiation exposure.

RISK ANALYSIS: occupational exposure. FOE, 26-28 Underwood St. London, N1 7JQ, U.K.

anne

Emel, Jacque; Kasperson, Roger E.; Goble, Robert; Re (Center for Technology, Environment and Development, University)

acad

Nuclear Waste Project Office, State of Nevada Agency

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT Projects. (USA).

POSTCLOSURE RISKS AT THE PROPOSED YUCCA MOUNTAIN REP REVIEW OF THE METHODOLOGICAL AND TECHNICAL ISSUES. NWPO-SE-011-88, Carson City, June, 1988, 55pp.

86/06/00

Insights into how the State of Nevada might view or Department of Energy efforts to estimate and charact post-closure repository risks. In general, risk and is not sufficient to assess long-term risks of a was repository, or to design a successful risk management Proposes an alternative framework for risk assessmen management.

RISK ANALYSIS:

Capitol Complex, Carson City, Nevada 89710

NFW 2.2-51-2

Goble, R.; Golding, D.; Kasperson, R.

govt

Center for Technology, Environment, and Development,

University.

POTENTIAL RETRIEVAL OF RADIOACTIVE WASTES AT THE PRO MOUNTAIN REPOSITORY: A PRELIMINARY REVIEW OF RISK IS June 1988. 44 p.

88/06/00

This paper characterizes the risks of retrieval by causal risk sequences that lead to adverse consequen preclosure operations and site characteristics that the need for retrieval, 3) the conditions under whic would take place and, 4) the potential for the socia amplicification of risk events.

RISK ANALYSIS: retrieval.

NFW 2.2-51-1

govt

Battelle Memorial Inst. Columbus, OH. Office of Nucl

Isolation.

PRELIMINARY ANALYSES OF SCENARIOS FOR POTENTIAL HUMA

INTERFERENCE FOR REPOSITORIES IN THREE SALT FORMATIO Battelle Memorial Inst. Report ONWI-553. Oct. 1985. 85/10/00

RISK ANALYSIS: public participation, geologic dispos

Kasperson, R.E.; Emel, J.; Goble, R.; Hohenemser, C. J.X.; Renn, O. (Center for Technology, Environment a Development, Clark Univ., Worchester, MA) Post, R.G. (ed.)

acad

RADIOACTIVE WASTES AND THE SOCIAL AMPLIFICATION OF R P.85-90. Waste Management '87: Waste Isolation in th Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987 87/00/00

This paper explores the issues involved in the socia amplification of risk, using the risk associated wit characterization as the example.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS

RISK ANALYSIS: siting, monitoring.

Freudenburg, W.R. (Univ. of Wisonsin, Madison, WI) Post, R.G. (ed.) acad

RATIONALITY AND IRRATIONALITY IN ESTIMATING THE RISK WASTE DISPOSAL.

P. 109-116. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

In addition to their intrinsic or 'academic' interes perceptions of risks have begun to receive increased attention for at least three reasons that are direct to waste disposal.
RISK ANALYSIS: public participation.

Cohen, B.L. acad

RISK ANALYSIS OF BURIED WASTES FROM ELECTRICITY GENE American Journal of Physics 54(1): 38-45. 86/00/00

RISK ANALYSIS: geologic disposal.

LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE King, C.M.; Marter, W.L.; Montaque, D.F.; Holton, G.

Savannah River Lab. SC (USA). RISK ASSESSMENT OF SOIL CONTAMINATION CRITERIA. June 1987. 25 p.

87/06/00 -Criteria have been developed to select radioactive a nonradioactive contaminants at waste sites detailed assessment.

RISK ANALYSIS:

Hansson, S.O.

govt National Board for Spent Nuclear Fuel, Stockholm, (S RISK DECISIONS AND NUCLEAR WASTE. November 1987. 41 p.

87/11/00
The risk concept is multidimensional, and much of it lost in the conventional reduction to a unidimension quantifiable term. Eight major dimensions of the ris are discussed, among them the time factor and the la knowledge factor.

RISK ANALYSIS:

AUTHOR

TYPE

ORGANIZATION

TITLE

PUBLISH

DATE

ABSTRACT

KEYWORDS LOCATION REFERENCE Emel, Jacque; Cook, Brian; Kasperson, Roger. (Cent∈ Technology, Environment and Development, Clark Unive

Nuclear Waste Projects Office, State of Nevada Agenc

Projects. (USA). RISK MANAGEMENT AND ORGANIZATIONAL SYSTEMS FOR HIGH-RADIOACTIVE WASTE DISPOSAL; ISSUES AND PRIORITIES. Nuclear Waste Projects Office. NWPO-SE-008-88, Sept

88/09/00

Public acceptance of risk depends more on public con risk management than on the quantitative estimates o consequences, probabilities and magnitudes. This re for comprehensive new risk management strategies, bo and institutional, which seek to embrace uncertainty suppress it, build in redundancy, and decentralize decision-making. Reviews current choices of managem organization in the U.S. repository program.

RISK ANALYSIS:

Capitol Complex, Carson City, Nevada 89710

NFW 2.2-51-3

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Cranwell, R.M.; Campbell, J.E.; Helton, J.C.; Iman, Longstine, D.E.; Ortiz, N.R.; Runkle, G.E.; Shortenc govt Sandia National Lab. NM (USA).; Nuclear Regulatory C

Washington DC (USA). RISK METHODOLOGY FOR GEOLOGIC DISPOSAL OF RADIOACTIV

FINAL REPORT. Aug. 1987. 104 p.

87/08/00

This report contains risk assessment methodology dev use in assessing the risk from the disposal of radio wastes in deep geologic formations. RISK ANALYSIS: geologic disposal.

Brown, J. (Wheal Pendarves Mine, Camborne).

RISK PERCEPTION: EXPERT OPINION VERSUS PUBLIC UNDERS

RADIOACTIVE WASTE REPOSITORIES). Econ. Soc. Res. Counc. Newsl. Febuary 1987. No.59. P

87/02/00

A research project looking at the public's attitudes siting of radioactive waste repositories is reported perception studies seek to compare expert and lay un

RISK ANALYSIS: siting, public participation.

Lewis, J.

RISKS FROM RADIOACTIVE WASTE DISPOSAL. Chem. Eng. London. July 1987. P.55 87/07/00

This article discusses the hazards associated with t of high, medium, and low level radioactive wastes an

acceptability to the public. Hazards from normal ope the disposal site and arising from a major accident assessed using mathematical models.
RISK ANALYSIS: modelling, disposal and storage alter

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

Truax, Hawley assoc

Environmental Action. SURVIVING THE 1980'S AT EPA.

Environmental Action, January/February 1989, 5pp.

DATE ABSTRACT 89/02/00

Discusses the approach to risk assessment now gainin in the U.S. especially as practiced by the Environme Protection Agency. There are concerns related to it on scientific data which may not always be adequate; to which it depends on experts and those with resour inherently excluding citizens; and that it can be us political tool by regulatory agencies.

KEYWORDS RISK ANALYSIS:

1525 New Hampshire Ave.NW, Washington, D.C, 20036

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

Radioactive Waste Div.) (and others).

Nuclear Energy Agency. 75- Paris, (France).
THE AIMS AND USES OF UNCERTAINTY ANALYSIS IN THE CON DEVELOPMENT AND REGULATION OF UNDERGROUND DISPOSAL O

Johnston, P.D. (Department of the Environment, Londo

RADIOACTIVE WASTE.

PUBLISH

P. 44-52. Uncertainty analysis for performance asses radioactive waste disposal systems. Proceedings of a workshop. Paris, France. Organization for Economic C and Development, 1987. 258 p.

87/00/00 DATE

The development and regulatory contexts for uncertain are described in connection with underground disposa

radioactive waste.

RISK ANALYSIS: geologic disposal.

ABSTRACT

KEYWORDS LOCATION REFERENCE

ORGANIZATION

AUTHOR

TYPE

TITLE

DATE

PUBLISH

ABSTRACT

Kasperson, Roger E. (Center for Technology, Environm Development, Clark University); Renn, Ortwin (Mounta Research, Inc.); Slovic, Paul (Decision Research, Eu Oregon)

acad/priv

Nuclear Waste Project Office, State of Nevada Agency

THE SOCIAL AMPLIFICATION OF RISK: A CONCEPTUAL FRAME NWPO, Carson City, January, 1988, 28pp.

88/01/00

The dilemma for society is the need to use risk anal design public policies, and the inability of current concepts to explain and anticipate public reaction t technical analysis of risk and the cultural, social individual response structures shaping public experimust be integrated in order to fully plan institutio responses and protective actions.
RISK ANALYSIS: social impacts.

KEYWORDS

LOCATION REFERENCE |Capitol Complex, Carson City, Nevada 89710 anne

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

govt

TOWARD A RISK ASSESSMENT OF THE SPENT FUEL AND HIGH-WASTE DISPOSAL SYSTEM. DOE Report BNL-51972, April 1986. 120 p. 86/04/00

RISK ANALYSIS: disposal and storage alternatives.

Nuclear Energy Agency. 75-Paris, (France). UNCERTAINTY ANALYSIS FOR PERFORMANCE ASSESSMENTS OF WASTE DISPOSAL SYSTEMS. PROCEEDINGS OF AN NEA WORKSH Paris (France). Organization for Economic Co-operati Development. 1987. 258 p. 87/00/00

The prediction of the long-term performance of radio disposal systems may be improved using uncertainty a techniques.

RISK ANALYSIS: geologic disposal.

Marivoet, J. (entre D'etude de L'energie Nucleaire, Belgium); Saltelli, A. (Commission of the European C Ispra, Italy. Joint Nuclear Research Center); Cadeel (Commission of the European Communities, Brussels, Belgium.Directorate General for Research, Science an Development).

Commission of the European Communities, Luxembourg. UNCERTAINTY ANALYSIS TECHNIQUES.

1987. 20 p. 87/00/00

The origin of the uncertainty affecting performance as well as their propagation to dose and risk result discussed.

RISK ANALYSIS:

Jardine, L.J. (Betchel National, Inc., San Francisco Post, R.G. (ed.) govt

UTILIZATION OF PROBABALISTIC RISK ASSESSMENTS TO GUI DESIGNS OF A REPOSITORY. P. 27-32. Waste Management '87: Waste Isolation in t

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

Techniques have been applied as part of the preclosu performance assessments for accident conditions cond engineered systems, structures, and equipment develothe conceptual design of a geologic repository. RISK ANALYSIS:

Thompson, B.G.J. (UK Department of the Environment,

govt UK Department of the Environment

THE DEVELOPMENT BY MEANS OF TRIAL ASSESSMENTS, OF A RADIOLOGICAL RISK ASSESSMENT OF UNDERGROUND DISPOSAL INTERMEDIATE LEVEL RADIOACTIVE WASTES.

Radioactive Waste Management and the Nuclear Fuel Cy

Vol. 9(1-3), p. 215-256.

87/00/00
A journal article examining the procedures for risk underground disposal of nuclear wastes using the Mon

simulation method.

RISK ANALYSIS: modelling

NFW 2.2-51-4

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH DATE

govt

Atomic Energy of Canada, Ltd.
"NUCLEAR WASTE DISPOSAL PREDICTED TO BE SAFE" SAYS A AECL, Pinawa, Manitoba, October, 1985, 3pp. 85/10/01

AECL news release on the Second Interim Concept Asse Document expressing confidence that the underground method will be safe. Claims there will be no risk f pre- or post-closure phases, transportation will be will be socio-economic benefits.

SAFETY ANALYSIS: geologic disposal, economics.

WNRE, Pinawa, Manitoba ROE 1LO

anne

Harris, P.A., et al. acad

A METHODOLOGY FOR HIGH-LEVEL WASTE SYSTEMS SAFETY AN PRECLOSURE PHASE. WASTE MANAGEMENT '85. 1985. P. 409-412.

85/00/00

SAFETY ANALYSIS: waste management.

Glasbergen, P. (RIVM/LBG, Bithoven, Netherlands); Ja (ECN, Petten, Netherlands); Hamstra, J. (Avora, Berg Netherlands).

Commission of the European Communities, Luxembourg. A NETHERLANDS APPROACH FOR ASSESSING THE PERFORMANCE LONG-TERM SAFETY ASPECTS OF A HIGH-LEVEL WASTE REPOS MINED IN A MEDIUM SIZED SALT DOME.

1987. 93 p. 87/00/00

This report describes the performance assessment wor being carried out under contract to the European Com order to evaluate the isolation capability of a salt is to be used for the disposal of high-level waste. SAFETY ANALYSIS: salt.

Saunders, P.A.H. (UKAEA Harwell Lab. Environmental a Science Div.).

United Kingdom Nirex, Ltd. AN OUTLINE OF NIREX'S RESEARCH AND SAFETY ASSESSMENT November 1987. 21 p. 87/11/00

ABSTRACT

This document outlines the safety studies being carr Nirex to ensure that radioactive wastes are disposed a way that significant exposure of the public to rad a minimum.

SAFETY ANALYSIS: public exposure.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

assoc International Atomic Energy Agency. Vienna (Austria) ASSESSING THE RADIOLOGICAL SAFETY OF WASTE REPOSITOR April 1986. V. 28(1) p. 25. 86/04/00

SAFETY ANALYSIS: geologic disposal.

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Brunner, . (Nuklear-Chemie und Metallurgie G.M.B.H., Germany, F.R.).

Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellschaft E.V., Bonn, Germany, (F.R.). BITUMINATION OF RADIOACTIVE WASTES UNDER THE ASPECT (REPORT ON A SYSTEMS STUDY 'BITUMINATED RADIOACTIVE P. 453-456. Annual Meeting on Nuclear Technology '87 Proceedings. Session 4: Fuel Cycle and Waste Process 87/00/00

SAFETY ANALYSIS:

Kimura, R.T.; Lindsey, D.W.

CHARACTERIZATION OF AIRBORNE RADIONUCLIDE PARTICULAT VENTILATED LIQUID-WASTE TANKS. Trans. Am. Nucl. Soc. 1987. V.54. P.65-66.

87/00/00

Tank vapor spaces in selected underground double-wal the US Dept. of Energy Hanford site have been presen form of particulates or aerosols. Such information i in the development of credible accident scenarios fo analyses.

SAFETY ANALYSIS: containment.

|Jardine, L.J.

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

DESIGNER'S INTERPRETATION OF THE 10CFR60.2 TERM IMPO SAFETY.

Trans. Am. Nuc. Soc. 1987. V.54 P. 105-106.

87/00/00

Numerical quantification of the phrase important to be developed for all nuclear facilities to normalize designers' approaches to specifying requirements rel safety.

SAFETY ANALYSIS:

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT | Hadermann, J. (Switzerland).

NAINE.

EIR'S CONTRIBUTION TO NUCLEAR WASTE MANAGEMENT IN SW (IN GERMAN).

NAGRA INF. (Jun 1987). V. 9(1-2) p. 42-46.

87/01/00

Most of the activities of the Federal Institute for Research in the area of nuclear waste management are optimisation of waste conditioning, aimed at assessi long-term safety of radioactive waste repositories. SAFETY ANALYSIS:

Petterson, John S. (Impact Assessment, Inc. La Jolla priv

Nuclear Waste Projects Office, State of Nevada Agenc Projects. (USA).

GOIÁNIA INCIDENT CASE STUDY. NWPO-SE-015-88, June 1988, 42pp.

88/06/00

The physical, economic, social and political impacts nuclear accident in Goiania, Brazil are examined. T impacts (especially perceived risk) were most signif Explores the processes by which these impacts came a their mitigation by the Brazilian government. Notes analogies to a potential accident at a high-level wa the U.S.

SAFETY ANALYSIS: socio-economic and ecological impac Captiol Complex, Carson City, Nevada 89710

anne

Ligon, D.M.; Stamatelatos, M.G.; Barsell, A.W.; Boli priv/govt
Oak Ridge National Lab. TN (USA).; GA Technologies,

Oak Ridge National Lab. TN (USA).; GA Technologies, (USA).; Nuclear Regulatory Commission, Washington DC HIGH-LEVEL WASTE PRECLOSURE SYSTEMS SAFETY ANALYSIS:

FINAL REPORT.
June 1987. 163 p.

87/06/00

The original work scope for Phase II was not complet objective was to demonstrate the methodology, develo I by quantifying a sample problem consisting of a sm of accident scenarios identified in the first study SAFETY ANALYSIS: geologic disposal.

Laub, T.W.; Jardine, L.J. (Sandia National Labs., Di Nuclear waste Engineering projects, Albuquerque, NM) govt

INITIAL Q-LIST FOR THE PROSPECTIVE YUCCA MOUNTAIN RE BASED ON ITEMS IMPORTANT TO SAFETY AND WASTE ISOLATI P.293-300. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Department. 1987.

A method for identifying items important to safety b

probabalistic risk assessment approach was developed implemented for the conceptual design of the Yucca M repository.
SAFETY ANALYSIS:

AUTHOR
TYPE
ORGANIZATION
TITLE

Smith, R.M.; Jung, D.W.; Baumgartner, P. govt
Atomic Energy of Canada Limited.
INTERNATIONAL SAFEGUARDS AT A POTENTIAL CANADIAN NUC

PUBLISH DATE ABSTRACT KEYWORDS LOCATION INTERNATIONAL SAFEGUARDS AT A POTENTIAL CANADIAN NUC WASTE DISPOSAL CENTRE FOR FUEL RECYCLE WASTE AND/OR

LOCATION REFERENCE SAFETY ANALYSIS: reprocessing.

88/00/00

AUTHOR TYPE ORGANIZATION | Kennedy, W.E.Jr.; Peloquin, R.A.; Napier, B.A.; Neud | priv/govt | Pacific Northwest Lab. WA; Nuclear Regulatory Commis

TITLE

Washington, DC. Div. of Waste Management.
INTRUDER DOSE PATHWAY ANALYSIS FOR THE ONSITE DISPOS
RADIOACTIVE WASTES: THE ONSITE/MAXI1 COMPUTER PROGRA

PUBLISH DATE ABSTRACT

87/02/00 This document summarizes initial efforts to develop human-intrusion scenarios and a modified version of computer program for potential use by the NRC in rev

KEYWORDS LOCATION REFERENCE applications for onsite radioactive waste disposal. SAFETY ANALYSIS:

AUTHOR TYPE ORGANIZATION Biesold, H.; Haider, G.

February 1987. 449 p.

TITLE

Bundesministerium fuer Umwelt-, Naturschultz und Reaktorsicherheit, Bonn, Germany, F.R.; Gesellschaft Reaktorsicherheit M.B.H., Koeln, Germany, (F.R.). INVESTIGATIONS ON THE COMPARISON OF TOXICITY OF RADI WASTES WITH ELEMENTS IN A MINE DEPOSIT AND IN FILTER

PUBLISH

German)
1987. 27 p. Schriftenreihe Reaktorsicherheit und Str-Ergebnisberichte, Untersuchungen, Studien, Gutachte
87/00/00

DATE ABSTRACT

For an estimate of the potential danger of a final s radioactive waste, comparisons with a mineral formin containing heavy metals and with filter dust from co power stations were made based on hazard measurement radioactive and chemically toxic materials.

KEYWORDS LOCATION REFERENCE

Storck, R.

SAFETY ANALYSIS:

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE

KERTA.
|LONG-TERM SAFETY ANALYSES FOR FINAL DISPOSAL. (IN GE | Kerntechnik. (Mar-Apr 1987). V. 50 (1) P. 50-52.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE The experience gained from safety analyses concernin disposal sites in the Federal Republic of Germany is Relevant radionuclides and significant characteristi migration of radionuclides are dealt with. SAFETY ANALYSIS:

Torgerson, D.F.

govt

Atomic Energy of Canada Limited.
NEA/CSNI WORK ON THE TECHNICAL STATUS OF THE SOURCE P. 35-37, Proceedings of an International Symposium Term Evaluation for Accident Conditions held in Colu 28 October - 1 November 1985. 1986. 86/00/00

SAFETY ANALYSIS: international.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Tasker, A. priv

NIREX SAFETY RESEARCH.

Atom. (UK). Feb. 1989. p. 36-37.

89/02/00

The paper concerns the research program of UK Nirex radioactive waste disposal at a meeting at Didcot po November, 1988. The aim of the program was to study aspects of radioactive waste after it had been place underground repository. The research projects within are briefly outlined

SAFETY ANALYSIS: geologic disposal.

Lowther, William. media

NUCLEAR NEGLIGENCE: DEADLY RADIOACTIVE LEAKS ARE WID Maclean's (November 7 1988) 101(46):54-55 88/11/07

SAFETY ANALYSIS:

Jardine, L.J.; Ma, C.W.; Sit, R.C.; Donahue, R.J. priv

Bechtel National Inc. CA (USA).

PRELIMINARY PRECLOSURE SAFETY ANALYSIS FOR A PROSPEC

MOUNTAIN REPOSITORY.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 645-650. 87/00/00

A quantitative probabilistic safety assessment was p the reference conceptual repository design being use Mountain. A new methodology to quantify radioactive for the air pathways was also developed and applied

asssessment. SAFETY ANALYSIS: monitoring.

AUTHOR TYPE ORGANIZATION

Robinson, P.C.

TITLE PUBLISH

DATE

UKAEA Atomic Energy Researc Establishment, Harwell. Physics Div.

PROBABILISTIC SAFETY ASSESSMENT IN RADIOACTIVE WASTE July 1987. 57 p. 87/07/00

ABSTRACT

Probabilistic safety assessment codes are now widely radioactive waste disposal assessments. This report overview of the current state of the field. The rela between the codes and the regulations covering radio disposal is discussed and the characteristics of cur is described. SAFETY ANALYSIS:

KEYWORDS LOCATION REFERENCE

Russell, V.

AUTHOR TYPE ORGANIZATION TITLE

PROTECTING PERSONNEL AND THE ENVIRONMENT FROM RADIOA EMISSIONS BY CONTROLLING SUCH EMISSIONS AND SAFELY D THEIR ENERGY.

5 May 1987. Vp. 87/05/05

PUBLISH DATE ABSTRACT

An apparatus is described for protecting organisms a environment from harmful emissions from a source of radioactive waste by shielding the organisms and the from at least a portion of such emissions, while dra power of such emissions as electricity. SAFETY ANALYSIS: health.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Brennecke, P.; Warnecke, E.

govt

Physikalisch-Technische Bundesanstalt, (FRG). REQUIREMENTS FOR RADIOACTIVE WASTE FOR FINAL STORAGE FINAL STORAGE CONDITIONS, AS OF NOVEMBER 1986) - KON Jan. 1987. 45 p.

87/01/00

In order to prove the safety of the planned Konrad f during the operating and post-operational phase, saf were carried out. The results are given in this pape SAFETY ANALYSIS: geologic disposal.

Bogorinski, P.; Baltes, B.; Martens, K.H. govt

Gesellschaft fur Reaktorsicherheit (FRG). REVIEW OF COMPUTER MODELS USED FOR POST CLOSURE SAFE OF NUCLEAR WASTE REPOSITORIES IN THE FRG.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 651-656. DATE ABSTRACT 187/00/00 For long term safety in geologic disposal groundwate provides a release scenario for the radionuclides to

KEYWORDS LOCATION REFERENCE biosphere. A review of a methodology that simulates radionuclides in the geosphere is presented. SAFETY ANALYSIS: radionuclide migration.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE

Hancox, W.T. govt Atomic Energy of Canada Limited.

SAFE, PERMANENT DISPOSAL OF NUCLEAR FUEL WASTE. 12 p. (1987). Reprinted from Nuclear Journal of Cana 1(2):256-267.

87/00/00

SAFETY ANALYSIS:

Byers, K.R. govt

SAFEGUARDS AND SECURITY DESIGN GUIDELINES FOR CONCEP MONITORED RETREIVABLE STORAGE (MRS) FACILITIES. J. Inst. Nuclear Materials Management. V. 13. p. 257

Existing safeguards and security regulations that ma applicable to a monitored retrievable storage (MRS) not well defined. MRS facility design features and o considerations are proposed that would enhance facil protection and provide additional assurance that pro systems and procedures would be effectively implemen SAFETY ANALYSIS: retrieval.

Richter, B.; Stien, G.; Weh, R.

Deutsches Atomforum E.V., Bonn, Germany, F.R.; Kernt Gesellschaft E.V., Bonn, Germany, (F.R.). SAFEGUARDS ASPECTS OF INTERIM AND FINAL STORAGE OF S ELEMENTS. (in German)
P.425-428. Annual Meeting on Nuclear Technology '87.
Session 4: Fuel Cycle and Waste Processing. 1987. 82

SAFETY ANALYSIS:

87/00/00

Berg, H.P.; Ehrlich, D.; Illi, H.; Thomauske, B.R. (Physikalisch-Technische Bundesanstalt, Braunschweig ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

SAFETY ANALYSES AND DERIVATION OF SITE SPECIFIC REOU RADIOACTIVE WASTE FOR THE PLANNED GERMAN REPOSITORY Nucl. Technol. October 1987. V. 79(1) P.92-99. 87/10/00

A brief summary of the safety analyses procedure for operational and post-operational phase of the planne "Konrad" repository is given. SAFETY ANALYSIS:

Baltes, B.; Holhauer, U.; Bloser, M.H.

Gesellschaft fur Reaktorsicherheit (FRG). SAFETY ANALYSES FOR THE POST OPERATIONAL PHASE OF FI REPOSITORIES OF RADIOACTIVE WASTE.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 657-660. 87/00/00

For storing radioactive waste in a salt mine, the lo safety of the repository has to be demonstrated. By safety analyses it has to be proved that in case of this type the radioactive load on the biosphere rema the fluctuation range of natural radioactivity. The codes for the analysis of the nuclide migration in t the covering rock are discussed.

SAFETY ANALÝSIS: radionuclide migration.

Prij, J. (Netherlands Energy Research Foundation, Pe govt

SAFETY ASPECTS CONCERNING THE STORAGE OF RADIOACTIVE ROCK-SALT: A SYSTEM-ANALYTICAL APPROACH. (in Dutch) Energiespectrum. January 1987. V. 11(1) P.24-30. 87/01/00

In this paper a number of characteristic aspects are a safety study for geologic waste-storages, like iso duration, the multibarrier system, the scenarios and analyzing techniues. SAFETY ANALYSIS: salt.

Saltelli, A. (Commission of the European Communities Italy. Joint Research Centre); Marivoet, J. (Nuclear Establishment, Nuclear Chemistry Dept., Mol, Belgium

TITLE

PUBLISH

DATE

SAFETY ASSESSMENT FOR NUCLEAR WASTE DISPOSAL. SOME O ABOUT ACTUAL RISK CALCULATIONS.

Radioact. Waste Manage. Nucl. Fuel Cycle. March 1988

P.309-321. 88/03/00

KEYWORDS LOCATION REFERENCE Two practical aspects of risk computations in safety for nuclear waste disposal are discussed. SAFETY ANALYSIS: risk analysis.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Ammon, R.V. priv

KEYWORDS LOCATION REFERENCE

SAFETY OF NUCLEAR WASTE MANAGEMENT. (in German) Nachr. Chem., Tech. Lab. September 1987. V. 35(9) P. 87/09/00 The main topics of this seminar are safety aspects o handling, incidents in reprocessing facilities, and processing and ultimate storage of radioactive waste SAFETY ANALYSIS: reprocessing, disposal and storage

AUTHOR Wurtinger, W.; Gruendler, D. (Gesellschaft fuer Reak M.B.H., Germany, F.R.) Post, R.G. (ed.)

TYPE ORGANIZATION TITLE

SAFETY REQUIREMENTS FOR WASTE PACKAGES, THE BASIS FO

PUBLISH

CRITERIA OF THE KONRAD REPOSITORY.
P. 581-586. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

DATE ABSTRACT

Safety related requirements for the acceptance of wa due for final disposal in the repository planned for Republic of Germany in the Konrad iron ore mine were from site-secific safety analyses. SAFETY ANALYSIS: containment.

KEYWORDS LOCATION REFERENCE

> Lindstroem Jensen, K.E. (Elsam Power Station Enginee Fredericia, Denmark).

AUTHOR

Commission of the European Communities, Luxembourg. SAFETY STUDIES OF HLW-DISPOSAL IN THE MORS SALT DOME THE SALT OPTION OF THE PAGIS PROJECT.

TYPE ORGANIZATION TITLE

> 1987. 88 p. 87/00/00

87/06/00

PUBLISH DATE **ABSTRACT**

The study, which is a support to the Pagis project,

KEYWORDS LOCATION REFERENCE tasks concerning the evaluation of the Danish salt d evaluation of the human intrusion scenario where a c excavated near the HLW-repository by solution mining SAFETY ANALYSIS: leaching, salt.

AUTHOR TYPE ORGANIZATION TITLE

Newsom, P.C.; Roberts, C.J.; Yucien Y.; Marchetti, S priv West Valley Nuclear Services Co., Inc. NY (USA). TECHNICAL AND ADMINISTRATIVE APPROACH FOR THE WEST V DEMONSTRATION PROJECT SAFETY PROGRAM. June 1987. 54 p.

PUBLISH DATE

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE . ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

In order to assure the safety of the public and the the WVPD, a system of hazard identification, categor analysis and review has been established. SAFETY ANALYSIS:

acad/media

THE GERMAN PROJECT: SAFETY STUDIES FOR NUCLEAR WASTE MANAGEMENT-DEVELOPMENT OF A SAFETY ASSESSMENT METHOD FINAL DISPOSAL OF NUCLEAR WASTE IN A SALT DOME. April 1986. Radioactive Waste Management & the Nucle Cycle. V 7(2) p. 209. 86/04/00

SAFETY ANALYSIS: geologic disposal, salt.

Berg, H. P.

THE KONRAD REPOSITORY - RESULTS OF THE SAFETY ANALYS DERIVATION OF REQUIREMENTS ON RADIOACTIVE WASTES. (I Kerntechnik. (Mar-Apr 1987). V. 50 (1) P. 22-28. 87/03/00

For the planned Konrad repository a site-specific sa has been carried out including the geological situat technical concept of the disposal mine and the radio wastes to be disposed of. SAFETY ANALYSIS:

88/02/17

87/04/00

SAFETY ANALYSIS:

Huerzler, P. (AARE-Tessin A.G. Fuer Elecktrizitaet, Switzerland).

TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

Papp, T. (Swedish Nuclear Fuel and Waste Management Stockholm); Come, B. (CEC); Chapman, NA. (BGS). priv Commission of the European Communities, Luxembourg. THE ROLE OF NATURAL ANALOGUES IN SAFETY ASSESSMENT A ACCEPTABILITY. P. 12-22. Natural Analogues in Radioactive Waste Dis Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series.

THE PROS AND CONS OF SAFETY. (OF NUCLEAR ENERGY) (in Electro-Rev. 17 Febuary 1988. V. 80(4). P.29-30.

The author discusses three cases in relation to conf nuclear energy: the fire at Windscale, the leaks in reprocessing plant; and the Transnuklear/Nukem scand

DATE

KEYWORDS LOCATION REFERENCE the society.
SAFETY ANALYSIS: natural analogues.

AUTHOR

TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

Carlson, R.L.; Hairston, W.P.; O'Callaghan, P.B.; Gr A.J.; Ruemmler, W.P. (Westinghouse Hanford Co., Rich priv

The safety assessment must evaluate the level of saf repository, the confidence that can be placed on the and how well the repository can meet the acceptance

KEYWORDS LOCATION REFERENCE THE SAFEGUARDS ACTIVE RESPONSE INVENTORY SYSTEM (SAR Nucl. Mater. Manage. July 1987. V.16 P.339-344. 87/07/00 The safeguards active response inventory system is a

accountability system developed for nuclear material that incorporates elements of process monitoring, cr

safety, physical inventory and safeguards. SAFETY ANALYSIS: monitoring.

AUTHOR

Lutze, W.; Grambow, B. (Hahn-Meitner-Institut fuer K Berlin G.M.B.H., Germany, F.R.); Ewing, R.C.; Jercin (New Mexico Univ., Albuquerque, USA).

Come, B. (CEC); Chapman, N.A. (BGS)

acad

TYPE ORGANIZATION

| acad | Commission of the European Communities, Luxembourg.

TITLE

PUBLISH

DATE ABSTRACT |THE USE OF NATURAL ANALOGUES IN THE LONG-TERM EXTRAP |GLASS CORROSION PROCESSES.

P. 142-152. Natural Analogues in Radioactive Waste D Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series.

87/04/00

One of the most critical aspects of nuclear waste mathe extrapolation of materials and systems behavior short-term experiments, typically on the order of on comparitively very long periods of time. Safety and analyses have to rely on extrapolations and the resp findings have to be evaluated in the frame of licens procedures.

SAFETY ANALYSIS: corrosion, risk analysis, natural a

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT Merz, E.R. (Inst. of Chemical Tech., Julich, Germany acad

TIME PERIOD OF CONCERN FOR JUDGING THE LONG-TERM HAZ GEOLOGICAL DISPOSAL OF RADIOACTIVE WASTE.

P. 181-186. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00

Although time perspective between 10/sup 3/ and 10/s are under discussion for performing repository safet assessments, the persuasion is growing that a time f about 10,000 years should be appropriate. SAFETY ANALYSIS:

KEYWORDS

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Devlin, T.K.

Sandia National Lab. NM (USA).

1986 ENVIRONMENTAL MONITORING REPORT.

April 1987. 23 p.

87/04/00

SNLL conducts various research activities which have potential for release of hazardous materials or radi the environment. Potential emissions include tritium uranium, metals, solvents, and common laboratory che MONITORING:

Hoff, D.L.; Chew, E.W.; Rope, S.K. govt

ÚSDOE Idaho Operations Office. Idaho Falls (USA). 1986 ENVIRONMENTAL MONITORING PROGRAM REPORT FOR THE NATIONAL ENGINEERING LABORATORY SITE.

May 1987. 74 p.

87705/00

This report presents onsite and offsite data collect for the routine environmental monitoring program con the Radiological and Environmental Sciences Laborato the Department of Energy (DOE) at the Idaho National Laboratory (INEL) site. The purpose of this routine to monitor radioactive and nonradioactive materials from INEL site operations which may reach the surrou offsite environment and population.

MONITORING: health.

Millard, G.; Pei, P.; Felicetti, S.; Gray, C.; Thomp Phelan, J.

govt

Šandia National Lab. NM (USA). 1986 ENVIRONMENTAL MONITORING REPORT, SANDIA NATIONA

LABORATORIES, ALBUQUERQUE, NEW MEXICO.

April 1987. 109 p.

87/04/00

Because radionuclides potentially are released in sm quantities from it's research activities, SNLA has a environmental monitoring program which analyzes from tritium, uranium, alpha emitters, and beta emitters soil, air, and vegetation.

MONITORING:

McIntyre, P.F.; Hawkins, R.H.

govt

ORGANIZATION TITLE

PUBLISH

September 17, 1987. 42 p.

Savannah River Lab. SC (USA) 1987 MONITORING REPORT OF SPECIAL WASTEFORM LYSIMETE SITE.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE

87/09/17

Analyses for radionuclides in the leachate from ten wasteform lysimeters at the Savannah River Plant hav since Jan. 1983.

MONITORING: chemistry, radionuclide migration.

Jaquish, R.E.; Napier, B.A.

priv

Pacific Northwest Lab. WA (USA).

A COMPARISON OF ENVIRONMENTAL RADIONUCLIDE CONCENTRA CALCULATED BY A MATHEMATICAL MODEL WITH MEASURED CON September 1987. 7 p.

87/09/00

The Pacific Northwest Lab conducts an extensive envi monitoring program at the Hanford site to determine radioactivity in the environment attributable to Han operations and to determine the resulting dose to th population.

MONITORING: modelling, public exposure.

Rodgers, John C.; Kenney, Jim W.

govt

Énvironmental Evaluation Group, Health and Environme Department, State of New Mexico. (USA).

A CRITICAL ASSESSMENT OF CONTINUOUS AIR MONITORING S

WASTE ISOLATION PILOT PLANT.

EEG-38, Santa Fe, March, 1988, 57pp.

88/11/00

An evaluation of the air monitoring systems at WIPP failure to meet minimum performance requirements. In there are difficulties with the continuous Air Monit instrumentation which may require replacement before becomes operational.

MONITORING:

7007 Wyoming Blvd.NE, Ste.F-2, Albuquerque, New Mexi NFW 2.2-53-2

McKinley, I.G.; West, J.M.; Grogan, H.A. govt

Eidgenoessisches Inst. (Switzerland).

AN ANALYTICAL OVERVIEW OF THE CONSEQUENCES OF MICROB

IN A SWISS HLW REPOSITORY.

Fuer Reaktorforschung, 1985. 107 p.

85/00/00

ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

MONITORING: analytical techniques.

Stanford Linear Accelerator Center, Menlo Park, CA (ANNUAL ENVIRONMENTAL MONITORING REPORT, JANUARY- DEC March 1987. 40 p. 87/03/00

Environmental monitoring and remedial actions at the linear accelerator center are reported. The local cl

geology, site water usage, land use and demography a reviewed. MONITORING:

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

priv Pacific Northwest Lab. WA (USA). ENVIRONMENTAL MONITORING AT HANFORD FOR 1986. May 1987. 225 p. 87/05/00

Holland, R.C.; Buddemeier, R.W.; Brekke, D.D.

KEYWORDS LOCATION REFERENCE Environmental monitoring at the Hanford site is cond Battelle Memorial Institute, Pacific Northwest Lab f DOE. The data collected provide a historical record levels of radionuclides and radiation attributable t causes, world wide fallout, and Hanford operations. MONITORING:

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Lawrence Livermore National Lab. CA (USA). ENVIRONMENTAL MONITORING AT THE LAWRENCE LIVERMORE N LABORATORY: 1986 ANNUAL REPORT. April 1987. 120 p. 87/04/00

KEYWORDS LOCATION REFERENCE

This report documents the results of the environment program at the Lawrence Livermore National Lab for 1 evaluate the effect of LLNL operations on the local measurements of direct radiation and a variety of ra and chemical pollutants in ambient air, soil, surfac groundwater, vegetation, milk, foodstuff, and sewage were made at both the Livermore site and nearby site MONITORING: ecological impacts.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

Bisping, L.E.

govt Pacific Northwest Lab. WA (USA).

ENVIRONMENTAL MONITORING MASTER SAMPLING SCHEDULE: J DECEMBER 1989.

Jan. 1989. 49 p.

89/01/00

Environmental monitoring of the Hanford Site is cond Pacific Northwest Lab. for the US DOE. This document the planned schedule for routine sample collection f year 1989 for the Surface and Groundwater Environmen Monitoring Projects. MONITORING:

Laseter, W.A. priv Mason and Hanger-Silas Mason Co., Inc., Amarillo, TX ENVIRONMENTAL MONITORING REPORT FOR PANTEX PLANT COV April 1987. 97 p.

87/04/00

ABSTRACT

KEYWORDS LOCATION REFERENCE This report presents monitoring data for both radioa non-radioactive species in the local environment. MONITORING:

AUTHOR TYPE

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Reyes, B.D.; Tkachyk, J.W.; Ritter, P.D.; Wilhelmsen priv

EG and G Idaho Inc., (USA).
ENVIRONMENTAL SURVEILLANCE FOR THE EG AND G IDAHO RA WASTE MANAGEMENT AREAS AT THE IDAHO NATIONAL ENGINEE LABORATORY.

Aug. 1987. 90 p.

87/08/00

The 1986 environmental surveillance report for the r waste management areas at the Idaho National Enginee describes environmental monitoring activities at the waste management complex, the experimental reduction the radioactive mixed waste storage facility, the prexperimental pilot plant, and two surplus facilities MONITORING:

Hedahl, T.G.; Reyes, B.D.

govt

Ídaho National Engineering Lab. ID (USA). ENVIRONMENTAL SURVEILLANCE OF EG AND G IDAHO WASTE M FACILITIES AT THE IDAHO NATIONAL ENGINEERING LABORAT Waste Management '87: Waste Isolation in the US, Tec

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 365-372. 87/00/00

The Eg and G Idaho, Inc., environmental surveillance performs routine and special environmental monitorin management facilities at the Idaho National Engineer Past data results are also evaluated and discussed. MONITORING: waste management.

Miller, R.L.; Wahlen, R.K.

Westinghouse Hanford Co., Richland, WA (USA). ESTIMATES OF SOLID WASTE BURIED IN 100 AREA BURIAL G

(contains glossary) October 1987. 79 p.

87/10/00 Previous estimates of radionuclide inventory and haz materials were based on extrapolations using limited burial records. The estimates in this report are base review of historical documents, on reconstruction of practices, and on the experiences of knowledgeable i involved in the disposal of wastes generated during

reactor operations.

MONITORING: waste management.

Rodgers, John C. govt

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

Environmental Evaluation Group, Health and Environme Department, State of New Mexico. (USA).

EXHAUST STACK MONITORING ISSUES AT THE WASTE ISOLATI

PLANT.

Santa Fe, November, 1987, 101pp. EEG-37

87/11/00

Examines issues related to exhaust stack monitoring radioactive particles at the WIPP site. The system proved complex and difficult to design and implement several recommendations for redesign and improvement MONITORING: radionuclide migration.

7007 Wyoming Blvd, NE, Ste.f-2, Albuquerque, New Mex

NFW 2.2-53-1

May 1987. 75 p.

priv Bechtel National, Inc., Oak Ridge, TN (USA). FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM: WAY STORAGE SITE: ANNUAL SITE ENVIRONMENTAL REPORT, WAYN JERSEY, CALENDAR YEAR 1986.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT During 1986, the Environmental Monitoring Program wa at the Wayne Interim Storage Site (WISS), a U.S. Dep Energy (DOE) facility located in the Township of Way Jersey. The WISS is part of the Formerly Utilized Si Action Program (FUSRAP), a DOE program to decontamin otherwise control sites where residual radioactive m remains from the early years of the nation's atomic program or from commercial operations causing condit Congress has mandated DOE to remedy.

MONÍTORING: mitigation.

NFW 2.2-53-5

87/05/00

Kuhlmeier, P.D.; Motley, C.A.

priv/govt

Oak Ridge National Lab. TN (USA).; Geraghty and Mill (USA)

GROUNDWATER MONITOR WELL INSTALLATION AT TWELVE HAZA STORAGE OR HANDLING FACILITIES AT THE OAK RIDGE GASE DIFFUSION PLANT: PHASE 2, DETECTION MONITORING.

June 1987. 140 p.

87/06/00

This report provides construction information for 41 monitor wells and a narrative describing a drilling, logging, and hydraulic permeability compounds that mentered the uppermost aquifer and any interconnnecti MONITORING: groundwater, design.

Mitchell, P.J.; Freshley, M.D.

govt Pacific Northwest Lab. WA (USA).
GROUNDWATER MONITORING AND MODELLING AT THE HANFORD Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 351-356.

The groundwater monitoring program at the Hanford si

AUTHOR
TYPE
ORGANIZATION
TITLE

southeastern Washington state is continually evolvin response to changing operations at the site, changes groundwater flow system, movement of the constituent aquifers, and regulatory requirements.

MONITORING: groundwater.

assoc International Atomic Energy Agency. Vienna (Austria) INTERCOMPARISON RUNS REFERENCE MATERIALS (AQCS).

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT 1989. 70 p. 89/00/00

The purpose of the Analytical Quality Control Servic provided by the International Atomic Energy Agency i laboratories engaged in the analysis of nuclear, env biological, and materials of marine origin for radio major, minor and trace elements, as well as stable i using atomic and nuclear analytical techniques, to c quality of their work.

MONITORING: radionuclide migration.

NFW 2.2-53-4

|Williams, R.E.; Mc Grath, D.A.; Boland, J.R. (Reynol and Engineering Co., Inc., Las Vegas); Post, R.G. (e priv

| MONITORING OF HEAT AND MOISTURE MIGRATION FROM RADIO | DISPOSED IN AN AUGERED SHAFT. | p. 381-386. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ | Arizona Nuclear Engineering Dept. 1987.

87/00/00
The temperature and moisture data will be used in co with data from gaseous tracer release tests in predi appraising the long-term performance of the GCDT.
MONITORING: tuff, thermodynamics.

Lemire, A.E.; Gascoyne, M. (Atomic Energy of Canada Manitoba)
Graves, B. (ed.)
govt

NATURAL RADIOACTIVITY IN SOME GROUNDWATERS OF THE CA

P. 97-110. Radon, Radium, and other Radioactivity in Water: Hydrogeologic Impact and Aplication to Indoor Contamination. Chelsea, MI. Lewis Publishers. 1987. 87/00/00

In 1982, WNRE instituted an environmental monitoring ensure that any adverse environmental effects arisin construction or operation of the URL were identified mitigated. As part of the pre-operational environmen measurements of natural radioactivity were made in swell waters of the vicinity. The results of these su the ongoing environmental monitoring program form the present paper.

MONITORING: groundwater, ecological impacts.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Williams, L.R.; Leggett, R.W.; Espegren, M.L.; Littl govt

Oak Ridge National Lab. TN (USA).
OPTIMIZATION OF SAMPLING FOR THE DETERMINATION OF TH
RADIUM-226 CONCENTRATION IN SURFACE SOIL.

Aug 1987. 36 p. 87/08/00

This report describes a field experiment that identi optimal method for determination of compliance with RA-226 guidelines for soil.

MONITORING: analytical technique.

Spiegler, Peter

govt

Énvironmental Evaluation Group, Health and Environme Department, State of New Mexico. (USA).

PROPOSED PREOPERATIONAL ENVIRONMENTAL MONITORING PRO WIPP.

EEG-26, Santa Fe, November, 1984, 26pp.

84/11/00

Describes a recommended environmental surveillance p State of New Mexico, for the WIPP site, and a framew discussion prior to setting up a co-operative monito program. The agreement for independent monitoring b specifies objectives to be met by the program and in baseline data collection prior to the operational ph MONITORING:

7007 Wyoming Blvd NE, Ste.F-2, Albuquerque, New Mexi

NFW 2.2-53-3

Elder, R.E.; Egert, G.W.; Johnson, A.R.; Osborne, W.

Rockwell International Corp. WA. Rockwell Hanford Op ROCKWELL HANFORD OPERATIONS ENVIRONMENTAL SURVEILLAN REPORT, CALENDAR YEAR 1986.

May 1987. 154 p. 87/05/00 Environmental surveillance of the searations area of performed by Rockwell Hanford operations to assess a the impacts of operations. It involves sampling and from the major environmental pathways of exposure to

MONITORING: ecological impacts, health.

Carlyle, S.G.; Post, R.G.

govt

Nuclear Energy Agency. (France).

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

THE ACTIVITIES, OBJECTIVES AND RECENT ACHIEVEMENTS O PROBABILISTIC SYSTEMS ASSESSMENT CODES (PSAC) USER G Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 661-666. 87/00/00

The NEA probabilistic systems assessment (PSAC) user established in 85 by the agency as part of its progr to the advancement of performance assessment methodo paper shows how the PSAC user group fits into the ov strategy of the RWMC program, gives the background t creation of PSAC, its aims and recent achievements. MONITORING:

Camus, H.; Carrere, D.; Simeon, C.

CEA Etablissement de la Vallee du Rhone, France; CEA d'Etudes Nucleaires de Cadarache, France. THE USE OF TRITIUM MEASUREMENTS FOR ENVIRONMENTAL MO French)

May 1987. 19 p. 87/05/00

The development of fine methods in order to assess t capacity of the environment and evaluate the fate of releases requires to have sensitive bioindicators. T in measuring organically bound tritium in food chain presented.

MONITORING: ecological impacts.

acad

WEATHERED BASALT GLASS: A NATURAL ANALOGUE FOR THE E REACTION PROGRESS ON NUCLEAR WASTE GLASS ALTERATION. Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 263. 85/09/00

MONITORING: natural analogues, glass.

```
PPPP
                                                               III
                                                                                    000
                                                                                             N
                                                                                                  N
                                                                        LLLL
                                                    P
                                                         P
                                                                 IIIIII
                                                                                  0
                                                                                        0
                                                                                             N
                                                                                                  N
                                                    P
                                                                                  000
                                                                                        0
                                                                                             NN
                                                                                                  N
                                                   PPPP
P
                                                                                        0
                                                                                            NNN
                                                                        L
                                                                                        0
                                                                                             N
                                                                                                 NN
                                                    P
                                                                                  0
                                                                                        0
                                                                                             N
                                                                                                  N
                                                    P
                                                               III
                                                                        LLLLL
                                                                                    000
                                                                                             N
                                                                                                   N
            III
                                000
PPPP
                                         N
                                                              PPPP
                                                                          CCCC
                                                    L
                                                                                  FFFFF
                                                                                              SSSS
                    LLL
                                                   LLL
PP
                                     0
                                         N
                                               N
                                                              P
                                                                        C
             IIII
                               0
                                                                   P
                                                                                  F
                                                                                             S
                               000
                                     0
                                         NN
                                               N
                                                              P
                                                                        C
                                                                                  F
                                                                                             S
                                                                        CC
                                     Ö
PPPP
                                         N
                                            N
                                               N
                                                              PPPP
                                                                                  FFFF
                                                                                              SSS
             Ī
P
                     L
                                     Ö
                                                    L
                                         N
                                             NN
                                                              P
                                                                                  F
                                                                                                   S
P
                               0
                     L
                                     0
                                         N
                                               N
                                                    L
                                                              P
                                                                                   F
                                                                                                   S
P
                                               N
                                                              P
                                                                                   F
            III
                                000
                                         N
                                                   LLLLL
                     LLLLL
                                                                                             SSSS
                                                                          CCCC
                                                                                  TTTTT
                                                              PPPP
                                                                        RRRR
                                                                                                ;;
                                                              P
                                                                   P
                                                                        R
                                                                                     T
                                                                              R
                                                                                                ;;
                                                              P
                                                                        R
                                                                                      T
                                                                    P
                                                                              R
                                                                                     T
                                                              PPPP
                                                                        RRRR
                                                              PPP
                                                                        RR
                                                                                                ;;
                                                                                     T
                                                                        R
                                                                            R
                                                                        R
                                                                                      Т
                                                                              R
```

File NCRFEA\$DKA300:[PCFS SPOOL.LASER 2]PILONLPCFS214605.PRT;1 (759,8857,0), las sequential file owned by UIC [PCFS,PCFS\$ACCOUNT]. The records are variable leng longest record is 128 bytes.

Job PILONLPCFS214605 (930) queued to LASER 2 on 18-OCT-1990 21:47 by user PILONL started on printer LTA2: on 18-OCT-1990 22:15 from queue LASER 2.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Grambow, B.; Strachan, D.M.

Hahn-Meitner-Inst. Berlin G.M.B.H., Germany, F.R.; P. Northwest Lab., Richland, WA (USA). A COMPARISON OF THE PERFORMANCE OF NUCLEAR WASTE GLA MODELLING.

January 1988. 13 p. 88/01/00

The purpose of this paper is to show that a dissolut precipitation model can be used to better understand of various system variables on glass dissolution. MODELLING: glass, dissolution.

Sjaardema, G.D.; Kreig, R.D. govt

Sandia National Lab. NM (USA). A CONSTITUTIVE MODEL FOR THE CONSOLIDATION OF WIPP C AND ITS USE IN ANALYSES OF BACKFILLED SHAFT AND DRIF CONFIGURATIONS.

October 1987. 68 p.

87/10/00

A constitutive model for the consolidation of wet cr material is presented. The material parameters for t are derived from hydrostatic consolidation tests per wet salt taken from the waste isolation pilot plant. MODELLING: salt.

govt

A FINITE-LINE HEAT TRANSFER CODE WITH AUTOMATED SENS CALCULATION CAPABILITY. ORNL Report TM-9975, September 1986. 58 p.

86/09/00

MODELLING:

Duffield, G.M.; Buss, D.R.; Stephenson, D.E.; Mercer priv

Geotrans, Inc., Herndon, VA (USA).
A GRID REFINEMENT APPROACH TO FLOW AND TRANSPORT MOD PROPOSED GROUNDWATER CORRECTIVE ACTION AT THE SAVANN PLANT, AIKEN, SC.

1987. 46 p. 87/00/00

The regional scale model, calibrated by an automatic

least-squares procedure, resulted in a set of hydrau parameter values consistent with other methods. Grou velocities were used to perform particle tracking an MODELLING: groundwater, radionuclide migration.

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION Haug, A. priv/govt

Sandia National Lab. NM; Intera Technologies, Inc.,

A MODELLING STUDY OF THE CULEBRA DOLOMITE.

1987. 27 p. 87/00/00

A modelling study has been performed as part of the hydrologic characterization of the waste isolation p site in New Mexico.

MODELLING: groundwater.

Jackson, C.P.

UKAEA Harwell Lab. Theoretical Physics Div.; Departm

Environment. London (UK).
A NOTE OF THE EQUATIONS USED TO MODEL FLOW AND TRANS UNDERSATURATED ZONE.

Febuary 1988. 19 P. 88/02/00

We consider the form of the equations used to model flow and transport in partially saturated media.

MODELLING: groundwater.

assoc National Water Well Association. (USA).
A REGIONAL GROUNDWATER FLOW MODEL FOR PERFORMANCE AS

ANALYSES OF A POTENTIAL REPOSITORY LOCATION.
National Water Well Association Application Ground W Conference, Columbus Ohio, 19-20 August 1985. p. 391 85/08/19

MODELLING: groundwater.

Seiler, F.A.

priv

Lovelace Biomedical and Environmental Research Insti

(USA).

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE A RISK WEIGHTED STRATEGY OF STATISTICAL SAMPLING. Nucl. Mater. Manage. July 1987. V. 16 p. 129-133. 87/07/00

A new strategy is proposed using differences in the associated with different units of the sampling set the frequency of sampling. The strategy is presented general form and examples are given in the area of t disposal of nuclear waste. MODELLING: transport, disposal and storage alternati

|Braester, C.; Thunvik, R. (Isreal Inst. of Technolog

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT Isreal) acad

A STUDY OF FLOW THROUGH A FRACTURE NETWORK DESCRIBED STATISTICALLY DISTRIBUTED PROPERTIES. Nucl. Technol. December 1987. V.79(3) P.371-376.

87/12/00

An analysis of the confidence of flow solutions for stochastically generated hard rock formations study out with the aid of a simplified synthetic model. MODELLING: fractures.

Nimick, F.; Williams, R.L.

govt

Sandia National Lab. NM (USA). A THREE DIMENSIONAL GEOLOGIC MODEL OF YUCCA MOUNTAIN

Sandia National Lab Report 83-2593. Oct. 1984. 72 p. 84/10/00

Modelling techniques were employed in generating a t dimensional description of the subterranean geology Mountain. The initial implementation of the three di model is a collection of surface representations, on for the base of each stratigraphic zone.

MODELLING: geologic disposal, tuff.

Hahne, K. assoc

International Atomic Energy Agency. Vienna (Austria) ADVANCED THREE-DIMENSIONAL NUMERICAL TEMPERATURE CAL EXEMPLARY FOR THE GORLEBEN REPOSITORY. COMPARISON WI (SEMI) - ANALYTICAL CALCULATION.

Proceedings of an International Symposium on the Bac Nuclear Fuel Cycle: Strategies and Options. Jointly the International Atomic Energy Agency and the Nucle

Agency of the OECD and held in Vienna, 11-15 May 198 87/00/00

Poster presentation. MODELLING:

Lovera, P.; Mangin, J.P.; Jorda, M. (CEA Centre D'Et Nucleaires de Fontenay-aux-Roses, France. Inst. de R Technologique et de Devloppement Industriel); Lewi, govt

CEA Centre D'Etudes Nucleaires de Fontenay-aux-Roses

Dept. D'Analyse de Surete.

ALPHA AND LONG-LIVED BETAGAMMA WASTE SOURCE TERM. A GENERATION MODEL FOR A DEEP CEMENTED WASTE REPOSITOR 1987. 12 p.

87/00/00

According to the normal scenario of radioactivity re biosphere, only long-lived nuclides are able to migr significantly to the surface. A first generation mod concerning a cemented waste of hulls and ends deeply in a granitic medium, is in progress at CEA.

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT MODELLING: radionuclide migration.

Dippold, G.; Wampler, J. acad

ALTERNATIVES AND OPTIMIZATION OF THE WASTE MANAGEMEN J. Inst. Nuclear Materials Management. V. 13. p. 249

In attempting to create optimum radioactive waste ma systems, designers face various problems. WAD COM II disposal cost model, assesses the cost effectiveness waste treatment, packing and disposal options. MODELLING: disposal and storage alternatives, econom

Airey, P.L.; Golian, C.; Lever, D.A.

Australian Atomic Energy Commission Research Establi Hieghts.

AN ÁPPROACH TO THE MATHEMATICAL MODELLING OF THE URA REDISTRIBUTION WITHIN ORE BODIES.

December 1987. 113 p.

87/12/00
The distributions of the uranium series isotopes in ore body were predicted by a simple one-dimensional isotopic migration parameters. A multiphase model ad describes the redistribution of uranium and daughter

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT radionuclides in the weathered zone of the ore bodie MODELLING: radionuclide migration.

Shukla, B.S.; Dignam, M.J. (Toronto Univ., Ontario) acad PCGLA.

AN APPROXIMATION METHOD FOR DIFFUSION BASED LEACHING Phys. Chem. Glasses. (Apr 1987) 28(2):85-94.

87/04/00
In connection with the fixation of nuclear waste in matrix, equations have been derived for leaching mod a uniform concentration gradient approximation, and uniform flux, therefore requiring the use of only Fi Law.

MODELLING: leaching, glass.

Taylor, R.F.

govt
UKAEA Atomic Energy Research Establishment, Harwell.
AN INITIAL APPRAISAL OF ASPECTS OF QUALITY ASSURANCE
CONDITIONING OF RADIOACTIVE WASTES. PART II - FEATUR
PROCESS MODELLING AND QUALITY CONTROL WITH PARTICULA
TO THE CEMENT-MIXING AND THE GROUTING OF ILWS.
Mar 1987. 49 p.

87/03/00
The main sections deal with general features of procand quality control firstly for homogeneous ILWS mix

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE

KEYWORDS LOCATION REFERENCE

ABSTRACT

with cement, and secondly for heterogenous solid was immobilized by in-drum grouting. MODELLING: cement.

Knowles, N.C.; Lowe, M.J.; Piper, D.

priv

Atkins & Groups. (UK). AN UPDATE ON PROJECT COSA.

Nuclear Engineering and Design. Feb. 1989. V. 111(2)

89/02/00

The current status of a benchmark exercise to compar predictions of the thermal creep behaviour of rock s described. Interest centres on the reliability of pr long term behaviour of repositories for high level w geological formations.

MODELLING: geologic disposal.

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

|Klett, R.D.; Treadway, A.H.; Hertel, E.S.; Garner, J priv/govt Sandia National Lab. NM (USA).; G2Vantel Ltd.,; Appl

Inc. NM (USA).
ANALYTIC MODELS OF NUCLIDE TRANSPORT IN SATURATED GE

May 1987. 325 p. 87/05/00

This report describes the TRION series of computer p consists of two major programs, the core program TRI performance assessment program SEDTRIN, and several programs.

MODELLING: radionuclide migration.

Bian, S.H.; Budden, M.J.; Yung, S.C.

govt

Pacific Northwest Lab. WA (USA).
APPLICATION OF GEOTHER/VT4 TO ASSESS GROUNDWATER TRA HIGH-LEVEL RADIOACTIVE WASTE REPOSITORY.

May 1987. 18 p.

87/05/00

The Geother/vt4 code is a modified and improved vers geother code. It was applied to a two-dimensional si a single waste package container in a high-level was repository to predict the thermal-hydraulic environm steam formation may occur. MODELLING: geology.

Airey, P.L. (IAEA, Vienna, Austria); Come, B. (CEC); N.A. (BGS).

Commission of the European Communities, Luxembourg. APPLICATION OF NATURAL ANALOGUE STUDIES TO THE LONG-PREDICTION OF FAR-FIELD MIGRATION AT REPOSITORY SITE P. 32-41. Natural Analogues in Radioactive Waste Dis Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

Management Series.

87/04/00

Evidence of compliance of proposed repositories with performance criteria will inevitably be based on commodelling.

MODELLING: radionuclide migration.

|Golian, C.; Duerden, P. (Australian Atomic Energy Co |Research Establishment, Lucas Heights) |Come, B. (CEC); Chapman, N.A. (BGS).

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

REFERENC

govt
Commission of the European Communities, Luxembourg.
APPLICATION OF OPEN SYSTEM MODELLING TO STUDIES OF S
MINERALIZATION (KOONGARRA) AND ROCK MATRIX DIFFUSION
(KRAEKEMAELA).

P. 328-341. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

The open system modelling technique was developed to the results of the natural analogue study being cond Alligator Rivers region of the Northern Territory of MODELLING: natural analogues.

Ishikawa, H.; Yokokawa, M.; Asai, K. (Japan Atomic E Research Inst., Tokai, Ibaraki).

APPLICATION OF SOME ITERATIVE METHODS TO WIND FIELD Nippon Genshiryoku Gakki-Shi. Febuary 1987. V.29(2) 87/02/00

This paper describes the reduction of computation ti sparse linear equations obtained by discretization o three-dimensional Poisson's equation using the finit method.

MODELLING:

Davis, E.C. (Oak Ridge National Lab., TN); Criag, P. (Environmental Consulting Engineers, Inc., Knoxville priv/govt

APPLICATION OF THE FINITE ELEMENT GROUNDWATER MODEL RADIOACTIVE WASTE DISPOSAL SITE.

Appl. Math. Model. April 1988. V.12(2) p. 141-153.

A finite element model for water transport through p (FEWA) has been applied to the unconfined aquifer at Ridge National Lab. soild waste storage area 6 engin facility.

MODELLING: groundwater.

Nies, A. (Gesellschaft fuer Strahlen und Umweltforsc

TYPE ORGANIZATION Muenchen, Braunschweig, Germany, F.R. Inst. fuer Tie Nuclear Energy Agency. Paris (France).

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

APPLICATION OF UNCERTAINTY ANALYSIS IN ASSESSMENTS O WASTE DISPOSAL IN THE FEDERAL REPUBLIC OF GERMANY. P.237-250. Uncertainty Analysis for Performance Asse Radioactive Waste Disposal Systems. Proceedings of a workshop. Paris, France. Organization for Economic C and Development. 1987. 258 p. 87/00/00

The computation of potential radiological consequence frame of long-term performance assessment of radioact disposal is affected with considerable uncertainties sources of uncertainties are identified and procedur scenario and model uncertainties are presented.

MODELLING:

Gelhar, L.W. priv/govt

Swedish Nuclear Fuel and Waste Management Co., (Swed APPLICATIONS OF STOCHASTIC MODELS TO SOLUTE TRANSPOR FRACTURED ROCKS.

Jan. 1987. 63 p.

87/01/00

A stochastic theory for flow and solute transport in variable aperture fracture bounded by sorbing porous which solutes may diffuse, is developed using a pert approximation and spectral solution techniques which local statistical homogeneity. Recommendations from presented.

MODELLING: radionuclide migration.

Parriaux, A.; Tissieres, P.; Miserez, J.

assoc

Sous-Groupe Geologie de L'Agneb.
APPRECIATION DES MODELES HYDRODYNAMIQUES DU POINT DE HYDROGEOLOGIQUE. (IN FRENCH).

January 28, 1986. 60 p. plus annexes.

86/01/28

Discusses hydrogeological modelling.

MODELLING: hydrogeology.

NFW 2.2-54-4

Schweitzer, D.G.; Sastre, C.

govt

Brookhaven National Lab. NY (USA).
ASSUMPTIONS, UNCERTAINTIES, AND LIMITATIONS IN THE P
CAPABILITIES OF MODELS FOR SENSITIZATION IN 304 STAI

STEELS.

June 1987. 12 p.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

87/06/00

A review of literature on sensitization in 304 stain has been made from what we believe would be the regu framework evaluating the claim that there is reasona assurance that predicts the absence of sensitization times and temperatures associated with a high-level repository at Yucca Mountain.

MODELLING: disposal and storage alternatives, steel.

|Wilkinson, S.R.

govt

Atomic Energy of Canada Limited.

ATMOS: A MODEL OF RADIONUCLIDE MIGRATION IN THE ATMO
1987. 9 p.

87/00/00

MODELLING: radionuclide migration.

Come, B. (Commission of the European Communities, Br

BENCHMARKING ROCK-MECHANICS COMPUTER CODES: THE COMM COSA.

P. 55-60. Proceedings of the 6th International Congr Mechanics. Accord, MA (USA). A.A. Balkema Publishers 87/00/00

Twelve research teams in the European community part benchmark exercise for rock-mechanics computer codes disposal of radioactive waste in salt.

MODELLING: geologic disposal, salt, international.

Haegg, C.; Johansson, G.

87/11/07
Biomovs (biosphere model validation study) is an int study where models used for describing the distribut radioactive and non-radioactive trace substances in and aquatic environments are compared and tested.
MODELLING: international, vegetation.

|Chen, S.Y.; Yuan, Y.C.

1987, 12 p.

TYPE ORGANIZATION TITLE

PUBLISH

govt
Argonne National Lab. IL (USA).
CALCULATION OF HEALTH RISKS FROM SPENT NUCLEAR FUEL
TRANSPORTATION ACCIDENTS.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

87/00/00

Models developed to analyze potential radiological h from various accident scenarios during transportation nuclear fuels are described.

MODELLING: transport, risk analysis, health.

Thunvik, R. (Royal Inst. of Tech., Stockholm, Sweden govt Swedish Nuclear Fuel and Waste Management Co., Stock CALCULATIONS ON HYDROCOIN LEVEL 2, CASE 1 USING THE MODEL. THERMAL CONVECTION AND CONDUCTION AROUND A FI TRANSFER EXPERIMENT.

March 1987. 41 p. 87/03/00

The purpose of this project is to improve the unders various strategies for modelling groundwater flow fo assessment of final radioactive waste repositories. MODELLING: groundwater.

Baldi, G.; Borsetto, M.; Hueckel, T.

Commission of the European Communities, Luxembourg. CALIBRATION OF MATHEMATICAL MODELS FOR SIMULATION OF SEEPAGE AND MECHANICAL BEHAVIOUR OF BOOM CLAY. 1987. 225 p.

87/00/00

This report presents results of research on the veri the validity of a generalized thermoelastoplastic-hy mathematical model elaborated at Ismes for descripti behaviour of boom clay. MODELLING:

Tsang, Chin-Fu

Lawrence Berkeley Lab. CA (USA). COMMENTS ON MODEL VALIDATION.

July 1987. 13 p. 87/07/00

The paper points out the inportance and usefulness of the separate roles of processes and geometric struct predictive modelling of the performance of a nuclear

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE ABSTRACT repository or underground injection disposal of toxi MODELLING:

Tait, J.C.; Johnson, L.H.

assoc Canadian Nuclear Society. (Canada).

COMPUTER MODELLING OF ALPHA RADIOLYSIS OF AQUEOUS SO CONTACT WITH USED UO2 FUEL.

Canadian Nuclear Society 2nd International Conferenc Radioactive Waste Management. Sept. 7-11, 1986. p. 686/09/00

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE MODELLING:

Ebeling, L.L.

priv

Reynolds Electrical and Engineering Co., Inc., Las V (USA)

COMPUTER MODELLING OF GREATER CONFINEMENT DISPOSAL O WASTE AT THE NEVADA TEST SITE.

October 1987. 12 p.

87/10/00

A 1.1 megacuri and 3.5 kilowatt waste source has bee metres down an auger hole in a tuffaceous alluvium f three years. Temperature and moisture have been moni surrounding soil during this time and two gaseous tr migration studies conducted to determine flow parame MODELLING: radionuclide migration, tuff.

Wheeler, A.J.; Notley, K.R. acad/priv
Dome Mines. ON; Queens University. ON, (Canada). COMPUTER MODELLING OF RADON-RELATED CONTAMINATION IN VENTILATION NETWORK.

Institute Mining Metallurgy/Engineers (UK) Mine Vent

Conference. June 13-19, 1984. p. 115-121.

84/06/00 Main features of a newly developed computer program radon-related contamination in the air of a mine ven network are described. Input to the program consists geometry, airflow distribution, dimensions, and rado characteristics of rock types.

MODELLING: radionuclide migration, geologic disposal

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT Fels, M.; Garred, L.

govt

Atomic Energy of Canada Limited.
COMPUTER SIMULATION OF THE TRANSPORT OF RADIONUCLIDE BUFFER MATERIAL IN AN UNDERGROUND NUCLEAR FUEL WASTE

VAULT. Technical Record TR-146, 88 p.

84/00/00

MODELLING: radionuclide migration.

Walton, J.C.; Sagar, B. (Rockwell Hanford Operations WA).

Bates, J.K.; Seefeldt, W.B. (eds.).

Argonne National Lab. Il (USA).

CORROSION MODEL FOR NUCLEAR WASTE CONTAINERS.

P. 271-282. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

Theory of a mechanistic model for estimating the max

uniform corrosion for a steel or copper container in repository environment is described.
MODELLING: corrosion, containment, steel.

AUTHOR TYPE ORGANIZATION TITLE

Case, J.; Niou, S.; Pietz, J.; Wallace, M.; Zurkoff, priv IT Corp. NM (USA).

PUBLISH

COUPLED FLUID FLOW AND SALT CREEP ANALYSIS: SUMMARY.

DATE ABSTRACT Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 615-620.

KEYWORDS LOCATION REFERENCE

Current investigations at WIPP are evaluating the na hydrologic barriers for the isolation of transuranic waste at the repository horizon. Evaluation was perf COUPLE, a computer code. The code is described and a problem solved to illustrate the code's capabilities MODELLING: hydrology, geologic disposal.

AUTHOR

Sharland, S.M.; Tasker, P.W.; Tweed, C.J. (Harwell L England).

TYPE ORGANIZATION TITLE

priv Argonne National Lab. Il. (USA). COUPLING OF CHEMICAL AND TRANSPORT PROCESSES IN NEAR

PUBLISH

MODELLING.

DATE ABSTRACT

P. 683-694. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00 Near-field modelling is concerned with the descripti migration, chemical and degradation processes that m

within an engineered radioactive waste repository an immediate environs. In this paper, they describe the program CHEQMATE (Chemical Equilibrium with Migratio Transport Equations), which has many applications in various changes in chemistry in the near-field. MODELLING: radionuclide migration.

KEYWORDS LOCATION REFERENCE

Kuhn, W.L.

AUTHOR TYPE ORGANIZATION TITLE

Pacific Northwest Lab. WA (USA).
DATA AND INFORMATION NEEDS FOR WPP TESTING AND COMPO

MODELLING. Proceedings of salt repository project's workshop on migration. March 1987, p. 19-21

PUBLISH

87/03/00

DATE ABSTRACT

The modelling task of the waste package program (WPP develop conceptual models that describe the interact waste package components with their environment and interactions among waste package components.

KEYWORDS LOCATION REFERENCE MODELLING: salt, containment.

AUTHOR

|Worley, B.A.; Oblow, E.M.; Pin, F.G.; Maerker, R.E.;

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

J.E.; Wright, R.Q.; Lucius, J.L.

govt

Oak Ridge National Lab. TN (USA).
DETERMINISTIC METHODS FOR SENSITIVITY AND UNCERTAINT LARGE-SCALE COMPUTER MODELS.

1987. 34 p. 87/00/00

The fields of sensitivity and uncertainty analysis a by statistical techniques when large-scale modelling being analysed. Tis paper reports on the development availability of two systems, GRESS and ADGEN.
MODELLING: risk analysis.

acad

DEVELOPMENT OF THE CODE MELODIE FOR LONG TERM RISK A NUCLEAR WASTE REPOSITORIES.

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 817. 85/09/00

MODELLING: disposal and storage alternatives.

Werme, L.O.; Grambow, B. (Swedish Nuclear Fuel and W Management Co., Stockholm).

Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA).
DEVELOPMENT, APPLICATION AND VALIDATION OF MODELS FO PACKAGE LONG-TERM PERFORMANCE; CURRENT TRENDS.

P. 29-43. Scientific Basis for Nuclear Waste Managem Pittsburgh, PA (USA). Materials Research Society. 19

87/00/00

Current trends in modelling waste package performanc reviewed mainly from the perspective of the Swedish

MODELLING: containment.

Hoyle, S.Q.; Grutzeck, M.W. (Pennsylvania State Univ Park).

Bates, J.K.; Seefeldt, W.B. (eds.).

Argonne National Lab. Il (USA). EFFECT OF PORE SOLUTION COMPOSITION ON CESIUM LEACHA CEMENT-BASED WASTE FORMS.

P. 309-317. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

The relationship of pore solution composition to obs behaviour for cesium-doped, cement-based waste form demonstrated. A leaching model is proposed, based on diffusion and homogenization of the pore solution an followed by re-equilibration of the waste form with pore solution over the long term.

KEYWORDS MODELLING: leaching, cement.

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

Atkinson, A.; Ewart, F.T.; Pugh, S.Y.R.; Rees, J.H.; S.M.; Tasker, P.W.; Wilkins, J.D. (UKAEA Harwell Lab Div.) assoc

United Kingdon Nirex, Ltd.

EXPERIMENTAL AND MODELLING STUDIES OF THE NEAR-FIELD

FOR NIREX REPOSITORY CONCEPTS.

February 1988. 14 p.

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT 88/02/00

A research programme is described which is designed investigate the chemical conditions in the near fiel concrete based repository and the behavior of the ra important nuclides under these conditions. MODELLING: radionuclide migration, concrete, chemist

acad

EXPERIMENTATION AND MODELLING OF U, TH, AND LANTHANI IN FISSURED ROCKS: INFLUENCE OF COMPLEXATION. Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 755. 85/09/00

MODELLING: radionuclide migration.

Huber, H.D.; Chockie, A.D.; Hostick, C,J,; Otis, P.T R.A.

priv

Pacific Northwest Lab. WA (USA).

FACSIM/MRS (MONITORED RETRIEVABLE STORAGE) -2: STORAG SHIPPING MODEL DOCUMENTATION AND USER'S GUIDE.

June 1987. 175 p. 87/06/00

The facsim/mrs-2 model simulates the MRS storage and operations, which include handling canistered spent secondary waste in the shielded canyon cells, in ons storage, and in repository shipping cask loading are MODELLING: containment, waste handling and emplaceme monitoring, cask.

Huyakorn, P.S.; Jones, B.G.; Parker, J.C.; Wadsworth govt

Los Alamos National Lab. NM (USA). FINITE ELEMENT SIMULATION OF MOISTURE MOVEMENT AND S TRANSPORT IN A LARGE CAISSON.
Modelling Study of Solute Transport in the Unsaturat
Workshop Proceedings. April 1987. p. 117-173.

87/04/00

This report deals with the results of tests simulati transport performed on compacted, crushed bandelier Caisson.

KEYWORDS LOCATION | MODELLING: radionuclide migration.

REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION Chan, T.; Scheier, N. (AECL, Whitesheel Nuclear Rese Establishment, Pinawa, Man.).

govt

Atomic Energy of Canada Ltd. FINITE-ELEMENT SIMULATION OF GROUNDWATER FLOW AND HE RADIONUCLIDE TRANSPORT IN A PLUTONIC ROCK MASS.

P. 41-46. Proceedings of the 6th International Congr Mechanics. Accord, MA (USA). A.A. Balkema Publishers

87/00/00
A three-dimensional finite-element code, MOTIF, has developed to model the coupled processes of groundwa heat transfer and solute transport in the vicinity o hypothetical nuclear fuel waste vault in plutonic ro MODELLING: groundwater, radionuclide migration, gran

govt Battelle Memorial Inst. Columbus, OH. Office of Nucl

FIRST STATUS REPORT ON REGIONAL GROUNDWATER FLOW MOD VACHERIE DOME, LOUISIANA.

Battelle Memorial Inst. Report ONWI-602. July 1986. 86/07/00

MODELLING: groundwater.

Borders, D.M.; Hyndman, D.W.; Huff, D.D.

govt/acad
Tennessee Univ., Knoxville (USA); Oak Ridge Associat
Universities, Inc. TN; Oak Ridge National Lab, TN (U
FORECASTING CONTAMINANT CONCENTRATIONS: SPILLS IN TH CREEK BASIN.

1987. 20 p. 87/00/00

The streamflow synthesis and reservoir regulation mo installed and sufficiently calibrated for use in man accidental release of contaminants in surface waters White Oak Creek watershed at ORNL.

MODELLING: ecological impacts, hydrology.

Nicolosi, S.L. (Battelle Memorial Institute, Columbu Bates, J.K.; Seefeldt, W.B. (eds.)

acad

Argonne National Lab. IL (USA).

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT GENERALIZED MODEL FOR THE RADIOLYSIS OF GROUNDWATERS CHEMISTRY AND INFLUENCES.

P. 671-679. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

A groundwater radiolysis model has been developed at Battelle-Columbus which is applicable to groundwater bicarbonate species. This paper describes the chemic and influences of bicarbonate species in the model. MODELLING: chemistry, groundwater.

acad

GEOCHEMICAL MODELLING OF THE ALTERATION OF A GRANITI A REPOSITORY FOR SPENT NUCLEAR FUEL.

Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 517.

85/09/00

MODELLING:

Lunden, I. (Chambers Univ. of Tec., Goeteborg, Swede acad
Technische Univ. Muenchen, Garching, Germany, F.R. I
Radiochemie; Commission of the European Communities,
(Belgium).
GEOCHEMICAL MODELLING USING THE PHREEQE CODE.
P. 102. Chemistry and Migration Behavior of Actinide

Products in the Geosphere. Abstracts. 1987. 196 p.

87/00/00
Published in summary form only.
MODELLING: geology, chemistry.

Buxton, B.E. (ed.).

Battelle Columbus Div. OH (USA).
GEOSTATISTICAL SENSITIVITY, AND UNCERTAINTY METHODS
GROUNWATER FLOW AND RADIONUCLIDE TRANSPORT MODELLING
PROCEEDINGS.

1989. 658 p. 89/00/00

The overall theme of the DOE/AECL '87 conference was application of statistical methods for sensitivity a uncertainty analysis to nuclear waste disposal flow. transport modelling. This document reports on thirty

KEYWORDS LOCATION REFERENCE different presentations.
MODELLING: groundwater, radionuclide migration.

AUTHOR | Mitchell, P.J.; Kachele, D.G.

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE

|priv |Pacific Northwest Lab. WA (USA); UNC Nuclear Industr |(USA).

GROUND WATER FLOW MODELING AT A HAZARDOUS WASTE SITE REGULATORY COMPLIANCE.

Jan 1987. 23 p.

87/01/00

The Pacific Northwest Laboratory has developed a mod unconfined groundwater flow system that is located b hazardous waste facility and is subject to regulatio in the Resource Conservation and Recovery Act. Ultim modeling will assist in additional site characteriza will be used to support the evaluation of future act MODELLING: groundwater, siting.

Mitchell, P.J.; Freshley, M.D.

priv

Pacific Northwest Lab. WA (USA).

GROUND-WATER MONITORING AND MODELING AT THE HANFORD Jan 1987. 6 p.

87/01/00

The ground-water monitoring program at the Hanford s southeastern Washington state is continually evolvin response to changing operations at the site, changes ground-water flow system, movement of the constituen aquifers, and regulatory requirements. Sampling and ground water, along with ground-water flow and solut modeling are used to evaluate the movement and resul distributions of radionuclides and hazardous chemica constituents in the unconfined aquifer.

MODELLING: monitoring, groundwater.

Mailen, J.C.; Roddy, J.W.

govt

Oak Ridge National Lab. TN (USA).
HOW WELL DOES ORIGEN PREDICT SPENT LWR FUEL CHARACTE
Waste Management '87: Waste Isolation in the US, Tec
Programs and Public Education. Tucson, AZ, (USA). Un
Arizona Nuclear Engineering Dept. 1987. p. 575-580.
87/00/00

The ORIGEN computer code is widely used to estimate radionuclide content of irradiated reactor fuel and

resultant heat generation and radiation levels assoc such fuel. This survey summarizes the fuel data avai open literature and, where given, the calculated val ORIGEN. For additional analyses of well-characterize fuel samples to improve the validation of ORIGEN2 ar MODELLING: waste characterization.

Wilkinson, S.R.

govt Atomic Energy of Canada Limited. HYDROS: A MODEL OF RADIONUCLIDE MIGRATION IN SURFACE 1987. 8 p. 87/00/00 ABSTRACT KEYWORDS LOCATION REFERENCE

MODELLING: radionuclide migration.

AUTHOR TYPE ORGANIZATION

Malbrain, C.M.; Lester, R.K.

TITLE

priv Wastechem Corp., NJ (USA). IMPROVED ENVIRONMENTAL PATHWAY MODEL FOR ASSESSING H WASTE REPOSITORY RISKS.

PUBLISH DATE ABSTRACT Health Phys. Nov. 1987. V. 53(5) p. 473-486. 87/11/00

KEYWORDS LOCATION REFERENCE An environmental pathway model useful for assessing postclosure radiological risks from high-level waste repositories has been developed and is described her MODELLING: radionuclide migration.

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Panahi, Zahra (Water Resources Center, Desert Resear University of Nevada).

acad Nuclear Waste Project Office, State of Nevada Agency

Projects INVENTORY OF NUMERICAL CODES AVAILABLE FOR HIGH-LEVE WASTE REPOSITORY PERFORMANCE MODELING AT YUCCA MOUNT

NWPO-TR-007-87, Carson City, June 1987, 147pp. 87/06/00 Characterizes numerical codes available and identifi information on current geohydrological modeling capa applied to nuclear waste repository sites.

MODELLING: hydrogeology. Capitol Complex, Carson City, Nevada 89710

NFW 2.2-54-3

Mohiuddin, G.

ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

Bundesministerium fuer Umwelt-, Naturschultz und Reaktorsicherheit, Bonn, Germany, F.R.; Gesellschaft Reaktorsicherheit M.B.H., Koeln, Germany, (F.R.). INVESTIGATION OF THE BEHAVIOR OF A PILLAR UNDER ROCK GEOTHERMAL TEMPERATURE WITH THE STEALTH COMPUTER PRO

January 1987. 73 p. Schriftenreihe Reaktorsicherheit Strahlenschultz. -Ergebnisberichte, Untersuchungen, Gutachten.

87/01/00

In this calculation, the behavior of open hollow spa mine under rock load and at geothermal temperature w and a pillar was selected for this.

MODELLING: geology.

Snellman, M.; Uotila, H; Rantanen, J. (Technical Res of Finland, ESPOO) Bates, J.K.; Seefeldt, W.B. (eds.)

Argonne National Lab. IL (USA). LABORATORY AND MODELLING STUDIES OF SODIUM BENTONITE INTERACTION.

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE P. 781-790. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

According to the present Finnish concept sodium bent used as a buffer material in the repository for high waste.

MODELLING: groundwater, buffers.

Nykyri, M.; Harkonen, H.; Tusa, E.H. (Technical Rese of Finland, Otakaari); Post, R.G. (ed.).

LABORATORY SCALE MODELLING OF THE FINNISH REACTOR WAS YSTEMS.

p. 512-520. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ Arizona Nuclear Engineering Dept. 1987.

87/00/00
The aim of the work is to model experimentally the i constructions of two reactor waste repositories. The of the multibarrier systems was started on a laborat using the same principal materials as in the Finnish waste disposal concepts.

MODELLING:

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Cole, C.R.; Nicholoson, T.J.; Davis, P.; McCartin, T govt

Sandia National Labs. NM (USA).; Nuclear Regulatory Washington, DC (USA).; Pacific Northwest Lab. WA (US LESSONS LEARNED FROM THE HYDROCOIN EXPERIENCE.

March 1987. 18 p.

87/03/00

This report was prepared for the Hydrocoin coordinat that directs the hydrologic code intercomparison stu summarizes the 'lessons' learned to date, principall verification and validation phases.

MODELLING: groundwater, international, hydrology.

Beavers, J.A.; Thompson, N.G.; Markworth, A.J.; Cial Majumdar, B.S.; McCoy, J.K.

priv

Battelle Columbus Div. OH (USA). LONG-TERM PERFORMANCE OF CONTAINER MATERIALS FOR HIG WASTE: (TECHNICAL REPORT, APR.1982- AUG. 1987).

November 1987, 427 p.

87/11/00
This report describes the results of experimental an studies of high-level waste container degradation. M studies focussed on general corrosion and pitting co with the models being extended to account for more r conditions.

MODELLING: corrosion, containment.

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE

Chartier, M.

CEA Centre D'etudes Nucleaire de Fontenay-aux-Roses,

Dept. de Protection Sanitaire.

MANUAL AND USER GUIDE OF THE TRIDIMENSIONAL MODEL OF CIRCULATION: OCEAN. (in French)

October 1987. 52 p.

87/10/00

The manual describes the assumptions set and the cal which lead from the Navier-Stokes equations to the g circulation model ocean.

MODELLING: marine disposal.

Shea, M. (Battelle Memorial Institute, Willowbrook, of Waste Technology Development); Come, B. (CEC); Ch (BGS). acad

ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

Commission of the European Communities, Luxembourg. MARYSVALE NATURAL ANALOGUE STUDY: FEASIBILITY PHASE RESULTS.

P. 275-288. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

The major focus of the study is the elucidation of t transport of nuclides in a hydrothermal system assoc some uranium veins within quartz monzonite and grani MODELLING: thermodynamics.

Reimus, P.W.

Priv
Pacific Northwest Lab. WA (USA).
MASBAL: A COMPUTER PROGRAM FOR PREDICTING THE COMPOS
MASBAL: A COMPUTER PROGRAM FOR PREDICTING THE COMPOS NUCLEAR WASTE GLASS PRODUCED BY A SLURRY-FED CERAMIC July 1987. 129 p. 87/07/00

This report is a user's manual for the MASBAL comput MASBAL's objectives are to predict the composition o waste glass produced by a slurry-fed ceramic melter knowledge of process conditions.
MODELLING: waste characterization.

Chen, B. govt

MATHEMATICAL MODELLING AND EVALUATION OF RADIONUCLID PARAMETERS FROM THE ANL LABORATORY ANALOG PROGRAM. ANL Report 84-13. July 1984. 33 p. 84/07/00

A model simulating long-term radioactive waste migra processes by groundwater flowing through a high-leve is developed.

MODELLING: radionuclide migration.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Wilkins, B.J.S.; Rigby, G.L.; Heinrich, W.F. govt Atomic Energy of Canada Limited. MCROC - A MODEL TO ESTIMATE TIME-DEPENDENT MICROCRAC PLUTONIC ROCK DUE TO HEAT. 1987. 35 p. 87/00/00

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION | MODELLING: thermodynamics, granite.

Lewi, J.; Assouline, M.; Bareau, J.; Raimbault, P. govt

CEA Centre d'etudes Nucleaires de Fontenay-aux-Roses MELODIE: A GLOBAL RISK ASSESSMENT MODEL FÓR RADIOACT REPOSITORIES.

March 1987. 35 p.

87/03/00

The institute of Protection and Nuclear Safety (IPSN part of the French Atomic Energy Commission has deve 1984, in collaboration with different groups inside the C.E.A. a computer model for risk assessment of n repositories in deep geological formations. MODELLING: geologic disposal.

Hwamg, S.T.

govt Environmental Protection Agency, Washington, DC (USA METHODS FOR ESTIMATING ON-SITE AMBIENT AIR CONCENTRA DISPOSAL SITES.

Nucl. Chem. Waste Management. (1987). V. 7(2) p. 95-

87/00/00 Currently, Gaussian type dispersion modelling and po approximation are combined to estimate the ambient a concentrations of pollutants dispersed downwind of a emission source, using the approach of virtual point approximation. This Gaussian dispersion modelling be accurate as the receptor comes closer to the source, inapplicable for the estimation of on-site ambient a concentrations at disposal sites. Two variations of techniques are presented, and their predictions are MODELLING: radionuclide migration.

Peterson, S.R.; Hostetler, C.J.; Deutsch, W.J.; Cowa govt

Pacific Northwest Lab. WA (USA).

MINTEQ USER'S MANUAL.

Feb. 1987. 156 p. 87/02/00

This manual will aid the user in applying the MINTEQ computer code to model aqueous solutions and the int aqueous solutions with hypothesized assemblages of s MODELLING:

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE

Oren, T.I.; Elzas, M.S.; Sheng, G. acad

MODEL RELIABILITY AND SOFTWARE QUALITY ASSURANCE IN NUCLEAR FUEL WASTE MANAGEMENT SYSTEMS. WASTE MANAGEM 1985. p. 381-396. 85/00/00

MODELLING: waste management.

Wanner, H. (Organization for Economic Cooeration and Nuclear Energy Agency, NEA Data Bank, Cedex, France)

MODELLING INTERACTION OF DEEP GROUNDWATERS WITH BENT RADIONUCLIDE SPECIATION.
Nucl. Technol. December 1987. V.79(3) P.338-347.
87/12/00

Based on available experimental data on the interact bentonite and groundwater, a model has been develope represents a means of extrapolation from laboratory conditions in compacted bentonite. MODELLING: groundwater, chemistry.

| Herzog, F. (Eidgenoessisches Inst. fuer Reaktorforsc | Wuerenlingen, Switzerland); Come, B. (CEC); Chaman, acad

Commission of the European Communities, Luxembourg. MODELLING ISOTOPE DISTRIBUTIONS IN BORECORES. P. 239-248. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/00/00

The distribution and possible mobilization of natura radionuclides in the neighbourhood of a water-bearin in rocks may provide valuable information for the un of transport mechanisms thought to determine the lon behavior of a radioactive waste repository.

MODELLING: radionuclide migration.

Dran, J.K.; Langevin, Y.; Doorhyee, E.; Petit, J.C. Orsay, France)
Bates, J.K.; Seefeldt, W.B. (eds.)

ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION · TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH

Argonne National Lab. IL (USA).

MODELLING OF THE DISSOLUTION OF SILICATE GLASSES BY

CODE (ETCH).

P. 559-569. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

37/00/00

A Monte-Carlo code has been developed to infer disso of silicate glasses from their chemical composition.

MODELLING: glass, dissolution.

Berner, U.R. (Swiss Federal Institute for Reactor Re Wurenlingen).

Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA).
MODELLING POREWATER CHEMISTRY IN HYDRATED PORTLAND C
P. 331-341. Scientific Basis for Nuclear Waste Manag
Pittsburgh, PA (USA). Materials Research Society. 19
87/00/00

Extensive employment of concrete is foreseen in radi repositories. A prerequisite for modelling the inter between concrete and formation waters is characteriz concrete system. A model which simulates the hydrati Portland cement assuming complete hydration of the minerals is presented.

MODELLING: cement.

acad

MODELLING RADIONUCLIDE SPECIATION AND SOLUBILITY LIM NEAR FIELD OF A DEEP REPOSITORY.

Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 509.

85/09/00

MODELLING: radionuclide migration.

Springer, E.P.; Fuentes, H.R. (eds.)

govt/acad

Los Alamos National Lab. NM; Texas Univ., El Paso. D Engineering; Nuclear Regulatory Commission, Washingt

Div. of Waste Management.

MODELLING STUDY OF SOLUTE TRANSPORT IN THE UNSATURAT

WORKSHOP PROCEEDINGS.

April 1987. 248 p.

DATE ABSTRACT 187/04/00
Issues addressed were the adequacy of the data for t models, effectiveness of the models to represent the particular information provided by the models, the r caisson experiments in providing fundamental knowled porous-media water flow and solute transport, and the of geochemistry to the transport of nonconservative

| MODELLING: chemistry.

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Berner, U.R. (Eidgenoessisches Inst. fuer Reaktorfor Wuerlingen, Switzerland)

Technische Univ. Muenchen, Garching, Germany, F.R. I Radiochemie; Commission of the European Communities, (Belgium).
MODELLING THE INCONGRUENT DISSOLUTION OF HYDRATED CE

MINERALS.

P. 94. Chemistry and Migration Behavior of Actinides Products in the Geosphere. Abstracts. 1987. 196 p.

Published in summary form only.

MODELLING: chemistry.

Pantelis, G.

Australian Atomic Energy Commission Research Establi Heights.

MODELLING WATER AND CONTAMINANT TRANSPORT IN THE RUM OVERBURDEN HEAPS.

April 1987. 17

87/04/00

An outline is given of a computer model for water an transport in and around overburden heaps, with those Jungle mine site as a specific example. MODELLING: radionuclide migration.

Ross, B. priv

MODELS FOR CALCULATING DISSOLUTION RATES OF HIGH-LEV Nucl. Safety. July-Sept. 1987. V. 28(3) p. 362-373.

The rates at which nuclides contained in high-level released into solution may be controlled by chemical equilibrium solubilities, or solid state diffusion. these are presented.

KEYWORDS LOCATION REFERENCE MODELLING: radionuclide migration.

Come, B. (CEC); Chapman, N.A. (BGS).

AUTHOR

TYPE

TITLE

ORGANIZATION

PUBLISH

Commission of the European Communities, Luxembourg. NATURAL ANALOGUES AND PERFORMANCE ASSESSMENTS: A POI BASED ON THE PAGIS EXPERIENCE. P. 3-11. Natural Analogues in Radioactive Waste Disp

Cadelli, N. (CEC, Brussels, Belgium. Directorate Gen Research Science and Development)

Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series.

87/04/00

DATE

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

In the light of the methodologies set up and impleme performance assessment studies, with particular refe presently available results from the PAGIS exercise, reviews, briefly, the two broad areas in which natur might represent a support to PA studies. MODELLING: monitoring, natural analogues.

Lever, D.A.

govt

Department of the Environment. London (UK). NATURAL ANALOGUES AND RADIONUCLIDE TRANSPORT MODEL V Aug 1987. 9 p.

87/08/00
This paper reviews possible roles for natural analog point of view of those involved with the development mathematical models for radionuclide transport and w of these models in repository safety assessments.
MODELLING: natural analogues, radionuclide migration

Lever, D.A. (UKAEA Harwell Lab, Theoretical Physics B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. NATURAL ANALOGUES AND RADIONUCLIDE TRANSPORT MODEL V P. 23-31. Natural Analogues in Radioactive Waste Dis Proceedings of a symposium organized by the CEC and Brussels. Graham & Trotman, 1987. 506 p. Radioactive Management Series.

87/04/00
In this paper, some possible roles for natural analo discussed from the point of view of those involved b development of mathematical models for radionuclide

KEYWORDS

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS

LOCATION REFERENCE and with the use of these models in repository safet assessments.

MODELLING: natural analogues, safety analysis, radio migration.

Come, B. (Commission of the European Communities, Br Chapman, N.A. (British Geological Survey, Keyworth).

Commission of the European Communities, Luxembourg. NATURAL ANALOGUES IN RADIOACTIVE WASTE DISPOSAL. London, UK. Graham & Trotman. 1987. 506 p. Radioacti management series.

87/00/00 The purpose of this symposium was to present a state survey of several years research studying 'natural a order to validate predictive models of the long-term affecting the safety of radioactive nuclear waste re MODELLING: safety analysis, radionuclide migration, analogues.

Nicholson, T.J.; McCartin, T.J.; Davis, P.A.; Beyele AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

Management Branch, Div. of Engineering Safety, Offic Regulatory Research, US Nuclear Regulatory Commissio Washington, DC)
Post, R.G. (ed.)
govt

NRC EXPERIENCES IN HYDROCOIN: AN INTERNATIONAL PROJE STUDYING GROUNDWATER FLOW MODELLING STRATEGIES. P. 201-208. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987.

87/00/00
The hydrologic code intercomparison study (HYDROCOIN international study designed to investigate various modelling strategies used to analyze the performance high-level waste disposal sites. The various groundw considered are to be used for safety assessments of high-level radioactive waste facilities.
MODELLING: groundwater.

Glakpe, E.K. acad

Howard Univ., Washington, DC (USA).
NUMERICAL COMPUTATIONS OF NATURAL CONVECTION HEAT TR
IRREGULAR GEOMETRIES: FINAL TECHNICAL REPORT.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT 23 January 1987. 6 p. 87/01/23

The goal of the research program at Howard Univ. is and document a general purpose computer code that ca obtain flow and heat transfer data for the transport of spent fuel configurations.

MODELLING: thermodynamics.

Sjaardema, G.D.; Krieg, R.D.

govt Sandia National Lab. NM (USA).

NUMERICAL MODELLING OF INTERÁCTIONS BETWEEN CRUSHED SALT.

1987. 22 p. 87/00/00

The results of several analyses studying the interac intact salt and crushed salt in realistic field conf such as backfilled shafts and drifts, will be presen MODELLING: salt.

Seitz, R.R.; Sagar, B.; Davis, J.D.

govt

ROCKWell Hanford Operations. WA (USA).
NUMERICAL MODELLING OF RADIONUCLIDE TRANSPORT THROUG
SEALS.

Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 637-644. 87/00/00

The mathematical basis of a two-dimensional model fo

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

transport of radionuclides through repository seals underground nuclear waste repository is described. MODELLING: radionuclide migration.

Bloom, S.G. (Office of Nuclear Waste Isolation, Colu

Pacific Northwest Lab. WA (USA) ONWI MODELS FOR SIMULATING BRINE MIGRATION IN SALT. p. 30-31, Appendix/C.91-C.99. Proceedings of Salt Re Project's Workshop on Brine Migration. March 1987. 87/03/00

Models based on flow due to a temperature gradient a to a concentration gradient were presented. In the e assessment reports, the temperature model was used t flow rates and cumulative volume to the waste packag estimate package failure and radionuclide release ra

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

MODELLING:

Hermann, O.W.; Parks, C.V.; Ludwig, S.B.

govt/acad Oak Ridge National Lab. TN; Battelle Memorial Inst.,

OH. Office of Nuclear Waste Isolation. ORIGEN-S (ALPHA,N) NEUTRON SOURCE SPECTRA IN BOROSIL CONTAINING HIGH-LEVEL WASTE.

1987. 7 p. 87/00/00

There is growing interest in the methodology and com software for evaluating the (alpha,n) source spectra mixtures of high-level waste and borosilicate glass. summary presents a significant expansion of the orig (alpha, n) model to include alpha-interactions with t elements of borosilcate glass.

MODELLING: glass.

Pusch, R.; Hoekmark, H.; Boergesson, L.

priv/govt Swedish Nuclear Fuel and Waste Management Co., (Swed OUTLINE OF MODELS OF WATER AND GAS FLOW THROUGH SMEC BUFFERS.

June 1987. 54 p.

87/06/00

Microstructure analyses of natural clays with hydrou smectite as major clay mineral have demonstrated that large variations in pore size, and that a few wide presponsible for the great majority of the permeation has been developed from these discoveries and is a great feather. for further work.

MODELLING: geology, radionuclide migration.

Isherwood, D.; Wolery, T. govt

Lawrence Livermore National Lab. CA (USA). OVERVIEW OF GEOCHEMICAL MODELLING NEEDS FOR NUCLEAR

PUBLISH DATE ABSTRACT **KEYWORDS** LOCATION REFERENCE 1984. 8 p. 84/00/00

MANAGMENT.

MODELLING: chemistry, waste management.

AUTHOR

|Gutjahr, A.L.; Kincaid, C.T.; Mercer, J.W.; Murarka,

TYPE ORGANIZATION TITLE

PUBLISH DATE

KEYWORDS LOCATION REFERENCE

ABSTRACT

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Siegel, M.D.; Wirenga, P.J.

govt Los Alamos National Lab. NM (USA).

PANEL SUMMARY REPORT.

Modelling Study of Solute Transport in the Unsaturat Workshop Proceedings. April 1987. p. 174-199. 87/04/00

This report summarizes the various modelling approac used to simulate solute transport in a variably satu emission. Five models are considered and conclusions recommendations are reported.

MODELLING: radionuclide migration.

Tomasko, D.; Reeves, M.; Kelly, V.A.; Pickens, J.F. govt

Sandia National Lab. NM (USA)

PARAMETER SENSITIVITY AND IMPORTANCE FOR RADIONUCLID

IN DOUBLE-POROSITY SYSTEMS.

1987. 37 p. 87/00/00

A type-curve methodology using four dimensionless pa developed for modelling radionuclide transport throu

fractured, double-porosity system. MODELLING: radionuclide migration.

Goodwin, B.W.; Andres, T.H.; Davis, P.A.; Leneveau, Melniyk, T.W.; Sherman, G.R.; Wuschke, D.M. (Atomic Canada Ltd., Pinawa, Manitoba. Whiteshell Nuclear Re Establishment) govt

POST-CLOSURE ENVIRONMENTAL ASSESSMENT FOR THE CANADI FUEL WASTE MANAGEMENT PROGRAM. Radioact. Waste Manage. Nucl. Fuel Cycle. September

P. 241-272.

87/09/00 This report desribes the SYVAC methodology and examp applications. A review of work in progress outlines generation of SYVAC that will be used for a formal p environmental assessment.

MODELLING:

Charo, L.; Habib, P. (Ecole Polytechnique, 91-Plaise Commission of the European Communities, Luxembourg. POTENTIAL FOR CREATION OF A SALT DOME FOLLOWING DISP

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION RADIOACTIVE WASTE IN A SALT LAYER. VOL.1. LABORATORY NUMERICAL COMPUTER SIMULATIONS. (in French)

1987. 290 p. 87/00/00

The study aims at quantifying the possibility of cre salt dome from a salt layer in which heat-emitting r waste would be buried.

MODELLING: salt.

Lee, L.

Du Pont de Nemours (E.I.) and Co., Aiken, SC. Savann PREDICTION OF WASTE GLASS MELT RATES.

1987. 4 p. 87/00/00

As part of the development, a simple model was devel predict the melt rates for the waste glass melter. MODELLING: glass.

Lee, L.M. priv/govt
E.I. Du Pont de Nemours and Co. Savannah River Lab., PREDICTION OF WASTE GLASS MELT RATES.
Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 591-594. 87/00/00
The immobilization of radioactive wastes solidifies by vitrification into a leach resistant borosilicate part of the development, a simple model was develope the melt rates for the waste glass melter. MODELLING: glass, containment.

Greenwade, L.E.; Cederberg, G.A.

govt

|Los Alamos National Lab. NM (USA). |PRELIMINARY GEOCHEMICAL/GEOPHYSICAL MODEL OF YUCCA M |(NNWSI).

1987, 14 p. 87/00/00

A comprehensive model incorporates the current and r statigraphic, petrologic, hydrogeologic, geochemical material data associated with a candidate repository Mountain, Nevada.

MODELLING: geology, chemistry, radionuclide migratio

REFERENCE

AUTHOR TYPE

ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT |Hwang, Y.; Chambre, P.L.; Lee, W.W.; Pigford, T.H. | govt

Lawrence Berkeley Lab. CA (USA).

PRESSURE-INDUCED BRINE MIGRATIÓN IN CONSOLIDATED SAL REPOSITORY.

June 1987. 7 p.

87/06/00

This report describes a mathematical model for brine through intact salt near a radioactive waste package salt.

MODELLING: radionuclide migration.

Jacobs, G.K., et al. acad

PROCEEDINGS OF THE CONFERENCE ON THE APPLICATION OF MODELS TO HIGH-LEVEL NUCLEAR WASTE REPOSITORY ASSESS 1984. 125 p. 84/00/00

MODELLING: chemistry, disposal and storage alternati

Nuclear Energy Agency. Paris (France).
PSACOIN LEVEL O INTERCOMPARISON. PROBABILISTIC SYSTE CODE (PSAC) USER GROUP.

Paris, France. OECD. November 1987. 114 p.

87/11/00

This report describes an international code intercom exercise carried out by the NEA Probabilistic System Code user group.

MODELLING: international.

Christensen, H.; Bjergbakke, E. (Sweden). Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA).

RADIATION INDUCED DISSOLUTION OF UO2.

P. 115-22. Scientific Basis for Nuclear Waste Manage Pittsburgh, PA (USA). Materials Research Society. 19 87/00/00

A model for the radiation induced dissolution of UO2 developed and tested using experiments described in

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION

|literature. |MODELLING:

Kelmers, A.D.; Meyer, R.E.; Blencoe, J.G.; Jacobs, G govt Oak Ridge National Lab. TN (USA). TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION RADIONUCLIDE SORPTION METHODOLOGIES FOR PERFORMACE A HIGH-LEVEL NUCLEAR WASTE REPOSITORIES: A PERSPECTIVE AN NRC WORKSHOP.

Nuclear Safety. Oct-Dec 1987. V. 28(4) p. 515-522.

87/00/00

A workshop to discuss the characterization and model radionuclide sorption processes in rock water system to the isolation of high-level nuclear waste in geol repositories was held May 13-15, 1986. Key recommen the workshop are presented here.

MODELLING: engineering, design, policy and administr

Routson, C. govt

DOE (USA).
RADIONUCLIDE SORPTION ON LOW-EXCHANGE CAPACITY HANFO

DOE Report RHO-SA-157 P. May 1984. 30 p.

84/05/00

A multicomponent mass transport computer model was d assess potential migration of fission products from soils and sediments at the Hanford Site. The PERCOL employed to predict the transport of radionuclides t saturated and unsaturated sediments.

MODELLING: radionuclide migration.

Gee, G.W.

priv

Pacific Northwest Lab. WA (USA)

RECHARGE AT THE HANFORD SITE: STATUS REPORT.

November 1987. 87 p.

87/11/00

A variety of field programs designed to evaluate recother water balance components including precipitati infiltration, evaporation, and water storage changes carried out at the Hanford site since 1970. A determ model developed for the site, appears to be the best available for estimating recharge on a site-specific MODELLING: groundwater.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT Reeves, M.; Kelley, V.A.; Pickens, J.F.

priv Intera Technologies, Inc. Austin, TX (USA). REGIONAL DOUBLE-POROSITY SOLUTE TRANSPORT IN THE CUL DOLOMITE: AN ANALYSIS OF PARAMETER SENSITIVITY AND I THE WASTE ISOLATION PILOT PLANT SITE.

24 November 1987. 169 p.

87/11/24

A high transmissivity fracture-controlled path is as modelling purposes, to provide the means for transpo infinitely long-lived radionuclides through the cule to the accessible environment at the waste isolation site, following a breach which does not disturb the head potentials within the unit.

KEYWORDS MODELLING: geology, radionuclide migration.

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT** Randall, J.D.; Constanzi, F.A. (Waste Management Bra Engineering Safety, Office of Nuclear Regulatory Res Nuclear regulatory Commission, Washington, DC) govt

RESULTS FROM AND ISSUES RAISED BY NRC'S HIGH-LEVEL R WASTE RESEARCH PROGRAMS INTEGRATED EXERIMENTAL, MODE MODEL VALIDATION WORK.

P. 153-174. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, AZ of Arizona Nuclear Engineering Dept. 1987. 87/00/00

A major issue addressed by the program is the validi mathematical models that will be used in predicting performance of hlw repositories. In addressing the i validity of models, the program pursues several altelines of inquiry, given that prototypical tests of h repository performance can not be done.
MODELLING: geologic disposal.

Raimbault, P.

CEA Centre D'etudes Nucleaires de Fontenay-aux-Roses RESULTS FROM THE METIS CODE PARTICIPATION TO THE HYD EXERCISE.

April 1987. 19 p. 87/04/00

The METIS code, developed at the ENSMP, is a 2D, fin radionuclide transport and groundwater flow model ba hypothesis of an equivalent porous medium with an ex

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

description of the main fractures. It is integrated global risk assessment code MELODIE for nuclear wast repositories in geological formations. MODELLING: groundwater, geologic disposal, risk anal

Morgan, H.S.; Wallner, M.; Munson, D.E. govt

Sandia National Lab. NM; Bundesanstalt fuer Geowisse

Rohstoffe, Hannover, Germany, (F.R.).
RESULTS OF AN INTERNATIONAL PARALLEL CALCULATIONS EX COMPARING CREEP RESPONSES PREDICTED WITH THREE COMPU FOR TWO EXCAVATIONS IN ROCK SALT.

November 1987. 71 p.

87/11/00

Creep responses computed with the ansalt finite elem which was developed by the Federal Institute for Geo Natural Resources in the Federal Republic of Germany compared to responses computed in the United States Sancho and Spectrum codes for two well defined bound problems.

MODELLING: international.

KEYWORDS LOCATION REFERENCE AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

| Evans, Thomas J. (Wisconsin Geological and Natural H | Survey)

acad Wisconsin Radioactive Waste Review Board. (USA). REVIEW OF CANADIAN CRYSTALLINE ROCK RESEARCH PROGRAM

Wisconsin GNHS, Madison, September, 1987, 8pp.

87/09/30
The Wisconsin Radioactive Waste Review Board is moni reviewing the Canadian crystalline rock waste dispos Includes a report of DOE/AECL technical conference o Groundwater Flow and Radionuclide Transport Modeling indicates that this field is still largely theoretic least 10 more years of field work will be required tof the models, and that current ability to predict tradionuclides in deep fractured rock is not good.

MODELLING: hydrogeology, geology. WGNHS, 3817 Mineral Point Road, Madison, WI 53705

Geotrans, Inc. (Desert Research Institute, Universit govt Nuclear Waste Project Office, State of Nevada Agency Projects. (USA).
REVIEW OF MADELING EFFORTS ASSOCIATED WITH YUCCA MOU

NEVADA.

OUARTERLEY REPORT.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION

TITLE

PUBLISH DATE NWPO-TR-004-87, Carson City, September, 1988, 22pp. 88/09/00

Details five modeling investigations relating to the Nuclear Waste Storage Investigations Project. Finds quality assurance and quality control procedures are poor. Emphasizes lack of co-ordination between fiel investigations and overall modeling efforts. Many t assumptions have been made without the appropriate f MODELLING: geology.

Capitol Complex, Carson City, Nevada 89710

anne

acad
Desert Research Institute, University of Nevada Syst
REVIEW OF MODELLING EFFORTS ASSOCIATED WITH YUCCA MO
NEVADA.

September 1986.22 p.

86/09/00

Detailed comments are presented on five modelling in related to the NNSWI at Yucca Mountain, Nevada.
MODELLING:

NFW 2.2-54-2

Robinson, P.C.; Jackson, C.P.; Herbert, A.W.; Atkins Atomic Energy Authority, Theoretical Physics Divisio U.K.)

govt Hauptableitung fur die Sicherheit der Kernalagen (HS (Switzerland)/

REVIEW OF THE GROUNDWATER FLOW MODELING OF THE SWISS

U.K.A.E.A, HL 86/1125, February, 1986, 31pp. 86/02/00

ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

Hydrogeological modeling work undertaken for Projekt reviewed, with respect to computer codes, general ap flow simulation and specific finite-element models e Several problems were identified which merit further Makes recommendations for improvemen consideration. future work.

MODELLING: hydrogeology.

NFW 2.2-54-1

priv

Fluor Technology, Inc. Irvine, CA (USA).
ROCK MECHANICS MODELS EVALUATION REPORT. (CONTAINS G August 1987, 159 p.

87/08/00

This report documents the evaluation of the thermal

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION thermomechanical models and codes for repository sub design and for design constraint analysis. MODELLING: design, thermodynamics.

McTigue, D.F. (Sandia National Labs, Albuquerque, NM

Pacific Northwest Lab. WA (USA).

SALT AS A POROUS THERMOELASTIC MATERIAL: LABORATORY APPLICATIONS.

p. 29-30, Appendix/C.83-C.90. Proceedings of Salt Re Project's Workshop on Brine Migration. March 1987. 87/03/00

A model was developed that represents salt as a flui porous, thermoelastic medium. The theory allows for compressibility and thermal expansion of both the po the salt.

MODELLING: salt.

Prindle, N.K.; Foster, J.

priv/govt

Technadyne Engineering Consultants, Albuquerque, NM; National Lab. NM (USA). SANDIA IMPLEMENTATION OF THE TRACR3D FLOW AND TRANSP NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT.

June 1987. 83 p.

87/06/00

Tracr3d is a computer code developed at Los Alamos N to model three-dimensional fluid flow and mass trans porous medium. The code is being considered for use performance assessment modelling of a potential repohigh-level radioactive wastes at Yucca Mountain in N Nevada.

MODELLING: geology.

govt Battelle Memorial Inst. Columbus, OH. Office of Nucl Isolation.

TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE SECOND STATUS REPORT ON REGIONAL GROUNDWATER FLOW MO THE PALO DURO BASIN, TEXAS.

Battelle Memorial Inst. Report ONWI-604, July 1986. 86/07/00

MODELLING: groundwater.

AUTHOR
TYPE
ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE govt
Battelle Memorial Inst. Columbus, OH. Office of Nucl

SECOND STATUS REPORT ON REGIONAL AND LOCAL GROUNDWAT MODELLING FOR RICHTON AND CYPRESS DOMES, MISSISSIPPI Battelle Memorial Inst. ONWI-605. August 1986. 143 p 86/08/00

MODELLING: groundwater.

Hofer, E. (Gesellschaft fuer Reaktorisicherheit (GRS (Germany, F.R.)); Hoffman, F.O. (Oak Ridge National (USA)).

Nuclear Energy Agency. 75 - Paris (France).
SELECTED EXAMPLES OF PRACTICAL APPROACHES FOR THE AS
MODEL RELIABILITY - PARAMETER UNCERTAINTY ANALYSIS.
P. 132-147. Uncertainty Analysis for Performance Ass
Radioactive Waste Disposal Systems. Proceedings of a
Workshop. Paris (France). Organisation for economic
and Development. 1987. 258 p.
87/00/00

The uncertainty analysis of model predictions has to between two fundamentally different types of uncerta presence of stochastic variability (type 2 uncertain however, applies to deterministic as well as to prob model predictions and often dominates over uncertain

MODELLING:

Isolation.

Pin, F.G.; Oblow, E.M.

govt Oak Ridge National Lab. Tn (USA). SENSITIVITY ANALYSIS OF PREDICTIVE MODELS WITH AN AU ADJOINT GENERATOR.

1987. 6 p. 87/00/00

The adjoint method is a well establised sensitivity methodology that is particularily efficient in large modelling problems.

MODELLING:

acad

ORGANIZATION TITLE

PUBLISH DATE **ABSTRACT KEYWORDS** LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT SENSITIVITY ANALYSIS USING COMPUTER CALCULUS: A NUCI ISOLATION APPLICATION.

Nuclear Science & Engineering, 1986. V. 94. p. 46-66 86/00/00

MODELLING: risk analysis, disposal and storage alter

Barr, G.E.; Miller, W.B.

govt

Šandia National Lab. NM (USA).

SIMPLE MODELS OF THE SATURATED ZONE AT YUCCA MOUNTAI July 1987. 90 p. 87/07/00

Numerical experiments examine the sensitivity of flo transport to uncertainties in existing data and the assumed catastrophic changes in hydraulic conductivi MODELLING: radionuclide migration.

Tarapore, P.S.; Gupta, R.; Clark, G.M.

Battelle Memorial Inst. Columbus, OH. Office of Nucl Isolation.

SIMREP 1.1: A SIMULATION MODEL FOR REPOSITORY OPERAT June 1987. 116 p.

87/06/00

This report serves as a documentation for SIMREP 1.1 event computer simulation model of repository operat surface waste-handling facility.

MODELLING: waste handling and emplacement.

McConnell, D.B.; Cramer, J.J. (Atomic Energy of Cana Pinawa, Man. Whiteshell Nuclear Research Establishme B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. SIMULATING THE MOVEMENT OF RADIUM AND LEAD AWAY FROM

LAKE URANIUM DEPOSIT, P. 179-190. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

The Cigar Lake uranium deposit in the Athabasca sand formation in Northern Saskatchewan is under study as analogue to various aspects of nuclear fuel waste di

KEYWORDS LOCATION REFERENCE

|MODELLING: geology, natural analogues.

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT Glasser, F.P.; MacPhee, D.E.; Lachowski, E.E. (Univ. Scotland).

acad

Argonne National Lab. Il (USA).

SOLUBILITY MODELLING OF CEMENTS: IMPLICATIONS FOR RA

WASTE IMMOBILIZATION.

P. 331-341. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

The suitability of cement matrices for the long-term immobilization of radionuclides cannot be predicted short-term experimental data alone, because the chem properties of cementitious systems change continuous repository lifetime. To model such changes is comple stepwise approach has been adopted.

MODELLING: cement, containment.

Barry, P.J.

govt

Atomic Energy of Canada Limited. STATISTICAL MODELS OF ATMOSPHERIC DISPERSION. Reprinted from Air Pollution Modeling and its Applic

211-226, 1986.

86/00/00

MODELLING: radionuclide migration.

Andres, T.H. (AECL, Pinawa. Whiteshell Nuclear Resea Establishment)

govt

Nuclear Energy Agency. Paris (France). STATISTICAL SAMPLING STRATEGIES.

P. 70-84. Uncertainty Analysis for Performance Asses Radioactive Waste Disposal Systems. Proceedings of a workshop. Paris, France. Organization for Economic C and Development. 1987. 258 p.

87/00/00

Systems assessment codes use mathematical models to natural and engineered systems. Probabalistic system codes carry out multiple simulations to reveal the u in values of output variables due to uncertainty in of the model parameters. In this paper, methods are for sampling sets of parameter values to be used in probabalistic systems assessment code.

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION MODELLING:

Bertocci, U.; Leigh, S.; Van Orden, A.C.; Yang, G. (Bureau of Standards, Gaithersburg, MD). Bates, J.K.; Seefeldt, W.B. (eds.).

Argonne National Lab. Il (USA).

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

STATISTICS OF PIT INITIATION: ANALYSIS OF CURRENT TR TITLE DURING PASSIVE FILM BREAKDOWN.

P. 251-259. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

During the incubation period preceding pitting, curr fluctuations indicate the beginning of the breakdown passive film. The characteristics of these current t are being examined as a possible way to predict pitt Stochastic models applied to the breakdown process h proposed, and in order to test how well they account experimental results, various forms of processing of vs. time records are necessary. This paper describes experimental data-taking methods, the processing rou developed for the statistical analysis of the data, the experimental results with computer simulations b stochastic model. MODELLING:

Howorth, J.M.

UKAEA Harwell Lab. Environmental and Medical Science Department of the Environment, London (UK). STUDIES OF ENVIRONMENTAL RADIOACTIVITY IN CUMBRIA, P MODELLING OF THE SEA-TO-LAND TRANSFER OF RADIONUCLID ASSESSMENT OF THE RADIOLOGICAL CONSEQUENCES. FINAL R

December 1987. 140 p.

Becember 1987. 140 p. 87/12/00
A mathematical model is described which represents t sea-to-land transfer of actinides discharged into the from the Sellafield reprocessing plant. The model su reproduces the marine distribution of plutonium and the Irish Sea between Cumbria and the Isle of Man and the magnitude of the transfer process to land.

Reeves, M.; Ward, D.S.; Davis, P.A.; Banano, E.J. govt

Sandia National Lab. NM (USA); Nuclear Regulatory Co

TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

Washington, DC (USA). SWIFT (SANDIA WASTE ISOLATION FLOW AND TRANSPORT) II SELF-TEACHING CURRICULUM: ILLUSTRATIVE PROBLEMS FOR WASTE-ISOLATION FLOW AND TRANSPORT MODEL FOR FRACTUR Jan 1987. 106 p. 87/01/00

Several documents have been written describing Swift current version of the SWIFT (Sandia Waste Isolation Transport) Code. This document is devoted to assisti analyst who desires to use the Swift II code.

MODELLING:

Oren, T.I.; Elzas, M.S.

acad

University of Ottawa. (Canada). TECHNICAL FOUNDATIONS FOR QUALITY ASSURANCE OF SYSTE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

ENGINEERING ACTIVITIES FOR SAFETY ASSESSMENT. Waste Management '87: Waste Isolation in the US, Tec Programs and Public Education. Tucson, AZ, (USA). Un Arizona Nuclear Engineering Dept. 1987. p. 275-282.

Basic system design axioms and a framework for design derivation based on structural design are presented. quality assurance issues are elaborated on.

MODELLING: safety analysis.

Bath, A.H.; Cave, M.; Berner, U.; McKindley, I.G.; N Come, B. (CEC); Chapman, N.A. (BGS).

Commission of the European Communities, Luxembourg. TESTING GEOCHEMICAL MODELS IN A HYPERALKALINE ENVIRO P. 167-178. Natural Analogues in Radioactive Waste D Proceedings of a Symposium Organized by the CEC and Brussels, BE, on 28-30 April 1987. London. Graham an 1987. 506 p. Radioactive Waste Management Series. 87/04/00

The near-field of a nuclear waste repository contain volumes of concrete and cement will be highly alkali probably, chemically reducing. A challenge in safety to determine the constraints on releases of particul radionuclides set by their low solubility in such an environment.

MODELLING: chemistry, geology, safety analysis.

|Liebetrau, A.M.

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE

Pacific Northwest Lab. WA (USA). THE ADAPTION AND USE OF RESEARCH CODES FOR PERFORMAN ASSESSMENT.

May 1987. 17 p. 87/05/00

Models of real-world phenomena are developed for man The models are usually implemented in the form of a

MODELLING:

Harvey, K.B.; Litke, C.D.; Boase, C.A.

Atomic Energy of Canada Limited.
THE DISSOLUTION OF A SIMPLE GLASS. PART 1. INITIAL M APPLICATION TO AN OPEN GLASS/WATER SYSTEM.
7. (1986). Reprinted from Physics and Chemistry of (1986) 27(1):15-21.

86/00/00

MODELLING: glass, dissolution.

Tomasko, D. govt

ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION

Sandia National Lab. NM (USA).
THE EFFECTS OF A BIMODAL PORE DISTRIBUTION ON MATRI A FRACTURED POROUS MEDIUM.

August 1987. 28 p.

87/08/00

Three models are developed for predicting the concer conservative (nonreactive) solute during transport fractured porous medium consisting of two materials different physical properties. MODELLING: fractures.

Cherrill, T.P.; Herbert, A.W.; Jackson, C.P.

UKAEA Atomic Energy Research Establishment, Harwell. THE EXTENSION OF NAMSOL TO MODEL THE EFFECT OF ROCK-DIFFUSION.

Feb 1987. 56 p.

87/02/00

The process of rock-matrix diffusion is briefly disc implementation of an efficient and flexible finite-e of it in NAMSOL is described.

MODELLING: geology.

REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE **ABSTRACT**

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS

Liebetrau, A.M.; Doctor, P.G. (Pacific Northwest Lab

priv

Nuclear Energy Agency. 75 - Paris (France). THE GENERATION OF DEPENDENT INPUT VARIABLES TO A PER

ASSESSMENT SIMULATION CODE.

P. 85-114. Uncertainty Analysis for Performance Asse Radioactive Waste Disposal Systems. Proceedings of a workshop. Paris, France. Organization for Economic C and Development. 1987. 258 p.

87/00/00

Mathematical models are being developed in many coun in the assessment of risks associated with the deep disposal of high-level nuclear wastes. The models ar to simulate one or more steps in the following scena containment is lost, and the radionuclides are relea repository, are transported to the biosphere, and be accessible to man.

MODELLING: radionuclide migration.

Nuclear Energy Agency. 75-Paris, (FR). THE INTERNATIONAL HYDROCOIN PROJECT. GROUNDWATER HYD MODELLING STATEGIES FOR PERFORMANCE ASSESSMENT OF NU DISPOSAL.

1987. 25 p.

87/00/00 Hydrocoin is concerned with the assessment of ground movements at potential nuclear waste disposal sites help of mathematical models and computer codes. MODELLING: groundwater.

LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION Banba, T.; Murakami, H. (Japan Atomic Energy Researc Dept. of Environmental Safety Research, Tokai, Ibara govt

THE LEACHING BEHAVIOR OF A GLASS WASTE FORM- PART 3: MATHEMATICAL LEACHING MODEL.

Nucl. Technol. January 1987. V. 76(1) p. 84-90.

87/01/00

The one-dimensional diffusion model of leaching was the basis of the soxhlet-type leaching experiment of

MODELLING: glass, leaching.

REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

Labreche, D.A.; Petney, S.V. priv/govt RE/SPEC Inc.; Sandia National Lab. NM (USA).

THE SPECTROM-31 COMPLIANT JOINT MODEL: A PRELIMINARY AND FEASIBILITY STUDY: NNWSI.

June 1987. 75 p.

87/06/00

The compliant joint, a deformable continuum joint mo incorporated into the two-dimensional finite-element program spectrom-31.
MODELLING:

Sherman, G.R.; Donahue, D.C.; King, S.G.; So, A. govt

THE SYSTEMS VARIABILITY ANALYSIS CODE SYVAC2 AND SUB THE SECOND INTERIM ASSESSMENT OF THE CANADIAN CONCEPNUCLEAR FUEL WASTE DISPOSAL. Atomic Energy of Canada Ltd. Report TR-317. October

86/10/00

MODELLING:

Sharland, S.M. (Harwell Lab., Oxon, England). Bates, J.K.; Seefeldt, W.B. (eds.).

priv

Argonne National Lab. Il (USA). THEORETICAL EVALUATION OF LOCALIZED CORROSION IN RAD

WASTE CANISTERS.

P. 283-293. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

87/00/00 In this paper, they discuss several techniques of mo term pit propagation in waste canisters. The complex problem has led to a number of physical and chemical approximations in the modelling.

MODELLING: corrosion, containment.

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH

Van Sambeek, L.L.; Stormont, J.C.

RE/SPEC Inc. NM (USA).

THERMAL/STRUCTURAL MODELLING OF TEST SERIS A OF THE SEAL PERFORMANCE TESTS.

Aug. 1987. 60 p.

DATE ABSTRACT

87/08/00
In this report, various modelling efforts concernin long-term sealing of nuclear waste are described an Some results are compared to an in situ test on con in host rock salt at WIPP. The report concludes by present thermal/structural modelling capabilities a limitations, and the direction future development e

MODELLING: geologic disposal.

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH
DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Jantzen, C.M.; Plodinec, M.J. acad

THERMODYNAMIC MODEL OF NATURAL, MEDIEVAL AND NUCLEAR DURABILITY.

Journal of Non-Crystalline Solids 67: 207-223.

84/00/00

MODELLING: thermodynamics, glass.

St John, C.M. priv/govt

Sandia National Labs. NM (USA).; Afbabian Assoc., CATHERMOMECHANICAL ANALYSIS OF UNDERGROUND EXCAVATIONS VICINITY OF A NUCLEAR WASTE ISOLATION PANEL.

June 1987. 81 p.

87/06/00

This report summarizes the results of a series of an excavations in the vicinity of waste emplacement par numerical modelling procedures were used in this stumoDELLING: geologic disposal.

Pruess, K.

Lawrence Berkeley Lab. CA; Nuclear Regulatory Commis Washington, DC. Div. of Waste Management. TOUGH USERS GUIDE.

August 1987. 85 p.

87/08/00

This document contains a technical description of the computer program, which was developed for simulating transport of water, vapour, air, and heat in porous fractured media.

MODELLING: geology.

AUTHOR TYPE ORGANIZATION TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Dykhuizen, R.C.

govt Sandia National Lab. NM (USA).

TRANSPORT OF SOLUTES THROUGH UNSATURATED FRACTURED M Water Res. Dec. 1987. V. 21(12) p. 1531-1539. 87/12/00

A numerical model is presented to represent the tran solutes through a highly fractured, unsaturated poro MODELLING: radionuclide migration.

Cederberg, G.A.; Greenwade, L.E.; Travis, B.J. (Los National Lab., NM).
Bates, J.K.; Seefeldt, W.B. (eds.).

govt

Argonne National Lab. Il (USA). TRANSPORT OF URANIUM AND TECHNETIUM THROUGH THE UNSA

TUFFS, YUCCA MOUNTAIN, NEVADA.

P. 703-712. Scientific Basis for Nuclear Waste Manag Pittsburgh, PA (USA). Materials Research Society. 19

87/00/00 An area containing unsaturated fractured tuffs at Yu Nevada, is one of the potential sites for geologic s high-level radioactive waste. The Environmental Prot Agency (EPA) 40 CFR 191 regulation limits the cumula releases of many radionuclides from the repository t accessible environment for 10 000 years after dispos Numerical models can be used to determine if the EPA requirement is met. In this paper a preliminary set calculations for uranium and technetium is discussed MODELLING: radionuclide migration, tuff.

Santschi, P.H.; Hoehn, E.; Lueck, A.; Farrenkothen, Federal Institute for Water Resources and Water Poll Control, Duebendorf). govt

TRITIUM AS A TRACER FOR THE MOVEMENT OF SURFACE WATE GROUNDWATER IN THE GLATT VALLEY, SWITZERLAND. Environ. Sci. Technol. September 1987. V. 21(9) P. 9

87/09/00 In spite of the complex hydrogeology of the lower Gl tritium breakthrough curves could be effectively sim modelling approaches developed from an experimental MODELLING: groundwater.

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR

TYPE ORGANIZATION TITLE

PUBLISH

DATE ABSTRACT

KEYWORDS LOCATION REFERENCE govt
Los Alamos National Lab. NM (USA).
TWO-DIMENSIONAL NUMERICAL SIMULATION OF GEOCHEMICAL
YUCCA MOUNTAIN. (NNWSI)
December 1987. 69 p.

87/12/00
Several physical and chemical processes can affect radionuclides in Yucca Mountain. Geometric spreading flow will reduce the concentration of contaminated reaching the accessible environment.

MODELLING: radionuclide migration.

Hooker, P.J.; Chapman, N.A. (British Geological Sur UK. Fluid Processes Research Group) (eds.)

Department of the Environment. London (UK). UK NATURAL ANALOGUE CO-ORDINATING GROUP, 1ST ANNUAL REPORT.

November 1987. 40 p.

87/11/00
The UK Natural Analogue Co-ordinating Group's funct ensure that the different research projects have an purpose aimed at improving and applying our underst natural geochemical processes in a way that will in confidence in long-term modelling predictions. Impr modelling prediction of radionuclide transport in twill directly benefit the performance and safety as proposed radioactive waste repositories.

MODELLING: policy and administration.

|Case, M.J.; Ritter, P.D. (Idaho National Engineering Idaho, Inc., Idaho Falls (USA).

USE OF SYSTEMS ANALYSIS TECHNIQUES IN THE EGANDG ID MANAGEMENT ENVIRONMENTAL SURVEILLANCE PROGRAM.
P. 357-362. Waste Management '87: Waste Isolation in Technical Programs, and Public Education. Tucson, And Arizona Nuclear Engineering Dept. 1987.
87/00/00

The environmental surveillance program of Eg and G has successfully implemented a systems analysis approximation models to supplement its monitoring progradioactive waste management complex.

MODELLING: monitoring, waste management.

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT Ensminger, D.A.; Koplik, C.M.; Nalbandian, J.Y.

Analytic Sciences Corp. Reading, MA, (USA).
USER'S GUIDE TO MARINRAD IV (MARINE RADIONUCLIDE TO DOSE): MODEL FOR ASSESSING THE CONSEQUENCES OF RELIMINATION THE OCEANS.

September 1987. 164 p.

|87/09/00 |Marinrad IV (Marine Radionuclide Transport and Dos KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE
PUBLISH
DATE
ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR
TYPE
ORGANIZATION
TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE of three Fortran'77 computer programs designed to ev consequences of the release of radionuclides into th MODELLING: marine disposal, radionuclide migration.

Longsine, D.E.; Bonano, E.J.; Harlan, C.P.

|govt |Sandia National Lab. NM (USA).

USER'S MANUAL FOR THE NEFTRAN COMPUTER CODE. (CONTAI

September 1987, 161 p.

87/09/00
This document describes the NEFTRAN (Network Flow an computer code and provides the reader with enough de information to use this code. NEFTRAN was developed assessment of ground-water flow and radionuclide tra high-level radioactive waste repositories mined in d saturated and fractured geologic formations.

MODELLING: groundwater, radionuclide migration.

Nykri, Mikko (Finland).

VALIDATION OF A NUMERICAL RELEASE MODEL (REPCOM) FOR REACTOR WASTE DISPOSAL SYSTEMS: PT.1. START-UP OF TH EXPERIMENTS.

May 1987. 91 p.

87/05/00

The aim of the work is to model experimentally the istructures and materials of two reactor waste reposito use the results for the validation work of a nume field release model, REPCOM. The experimental modell multibarrier systems is conducted on a laboratory so the same principal materials as are employed in the reactor waste disposal concepts. The migration of rais studied in two or more consecutive material layer MODELLING: radionuclide migration.

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH

DATE
ABSTRACT
KEYWORDS
LOCATION
REFERENCE

AUTHOR
TYPE
ORGANIZATION

TITLE

acad

VALIDATION OF HYDROGEOLOGIC MODELS TO DESCRIBE GROUN IN THE CRYSTALLINE BASEMENT OF NORTHERN SWITZERLAND. Nuclear Waste Management Symposium. Stockholm (Swede 9-11, 1985. p. 107. 85/09/00

MODELLING: hydrogeology, groundwater.

Laurens, J.M.
priv/govt
Electrowatt Engineering Services, Ltd., (UK).; Depar
Environment. London (UK).
VALIDATION OF THE VAULT COMPUTER MODEL 'VERMIN' FOR
BEHAVIOR OF REPOSITORIES IN GEOLOGICAL FORMATIONS.

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE

PUBLISH

DATE ABSTRACT KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION TITLE

PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE

AUTHOR TYPE ORGANIZATION

TITLE PUBLISH DATE ABSTRACT

KEYWORDS LOCATION REFERENCE Oct. 1987. 216 p.

87/10/00

A validation methodology is proposed and applied to model VERMIN, which is used to simulate radionuclid from repositories for solid radioactive wastes. MODELLING: radionuclide migration.

Read, D.; Broyd, T.W. (Atkins Research and Developm

Technische Univ. Muenchen, Garching, Germany, F.R. Radiochemie; Commission of the European Communities (Belgium) . VERIFICATION AND VALIDATION OF PREDICTIVE COMPUTER DESCRIBING THE NEAR AND FAR FIELD CHEMISTRY OF RADI DISPOSAL SYSTEMS.

P. 97-98. Chemistry and Migration Behavior of Actin Fission Products in the Geosphere. Abstracts. 1987.

87/00/00

Published in summary form only. MODELLING: chemistry, radionuclide migration.

Tylock, B.; Jansen, G.; Raines, G.

govt Office of Nuclear Waste Isolation. (USA).

VERIFICATION OF THE 2.00 WAPPA-B (WASTE PACKAGE PER ASSESSMENT-B VERSION) CODE.

July 1987. 71 p. 87/07/00

A modified code, WAPPA-B, is used for the computati

failure due to uniform corrosion. MODELLING:

Tarapore, P.S.

Battelle Memorial Inst. Columbus, OH. Office of Nuc Isolation.

VERIFICATION REPORT FOR SIMREP 1.1.

June 1987. 50 p. 87/06/00

SIMREP 1.1 is a dicrete event computer simulation operations in the surface waste-handling facility. MODELLING: waste handling and emplacement.







